

EXHIBIT A

1 OF 2



US005699526A

United States Patent [19]

[11] Patent Number: 5,699,526

Siefert

[45] Date of Patent: Dec. 16, 1997

[54] ORDERING AND DOWNLOADING
RESOURCES FROM COMPUTERIZED
REPOSITORIES

[75] Inventor: David M. Siefert, Englewood, Ohio

[73] Assignee: NCR Corporation, Dayton, Ohio

[21] Appl. No.: 670,294

[22] Filed: Aug. 21, 1996

Related U.S. Application Data

[63] Continuation of Ser. No. 217,062, Mar. 24, 1994, abandoned.

[51] Int. Cl.⁶ G06F 17/30

[52] U.S. Cl. 395/227; 395/610

[58] Field of Search 395/226, 227,
395/610, 615, 601

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Database Inspec Institute of Electrical Engineers, Stevenage, GB, Inspec No. AN 4560279, abstract & OCLC Systems & Services, vol. 9, No. 3, 1993 USA, pp. 31-36, Smith J. 'Electronic ILL at Colorado State University'.

Primary Examiner—Thomas G. Black

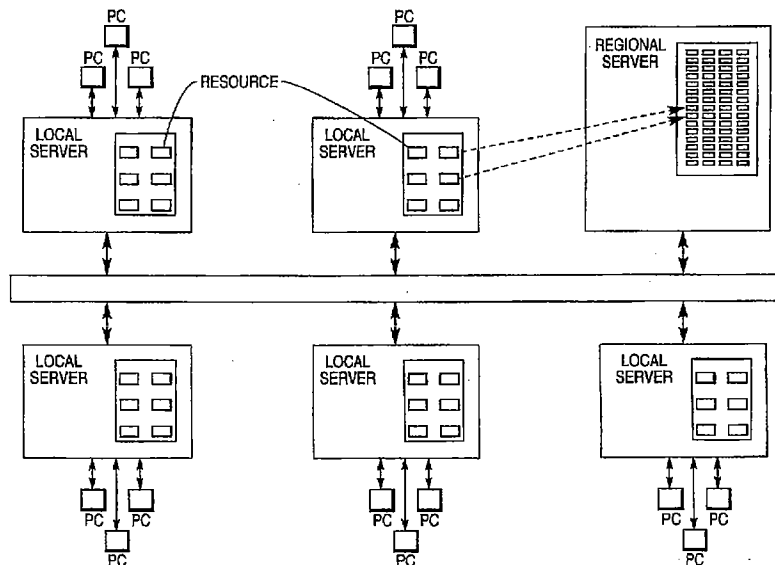
Assistant Examiner—Jack M. Choules

Attorney, Agent, or Firm—Gregory A. Welte; George H. Gates

[57] ABSTRACT

The invention concerns a system for managing resources, which can take the form of (a) computer-compatible information, such as data files and programs, and (b) non-computer-compatible information, such as data contained on microfiche, and (c) physical objects. The resources are located at geographically diverse sites. The invention contains a descriptive profile for each resource, and allows any user to search all profiles, and to search the profiles according to "fields" (a database term), such as by location of the resources, or by category of the resources. The user can order delivery of a selected resource, and the system causes delivery of the resource to be executed, irrespective of the form (eg, physical object) of the resource. The invention allows a provider of a new resource to limit access to the resource, by identifying users who are authorized to obtain access to the resource. Non-authorized users cannot obtain access to the profiles of these resources.

8 Claims, 101 Drawing Sheets



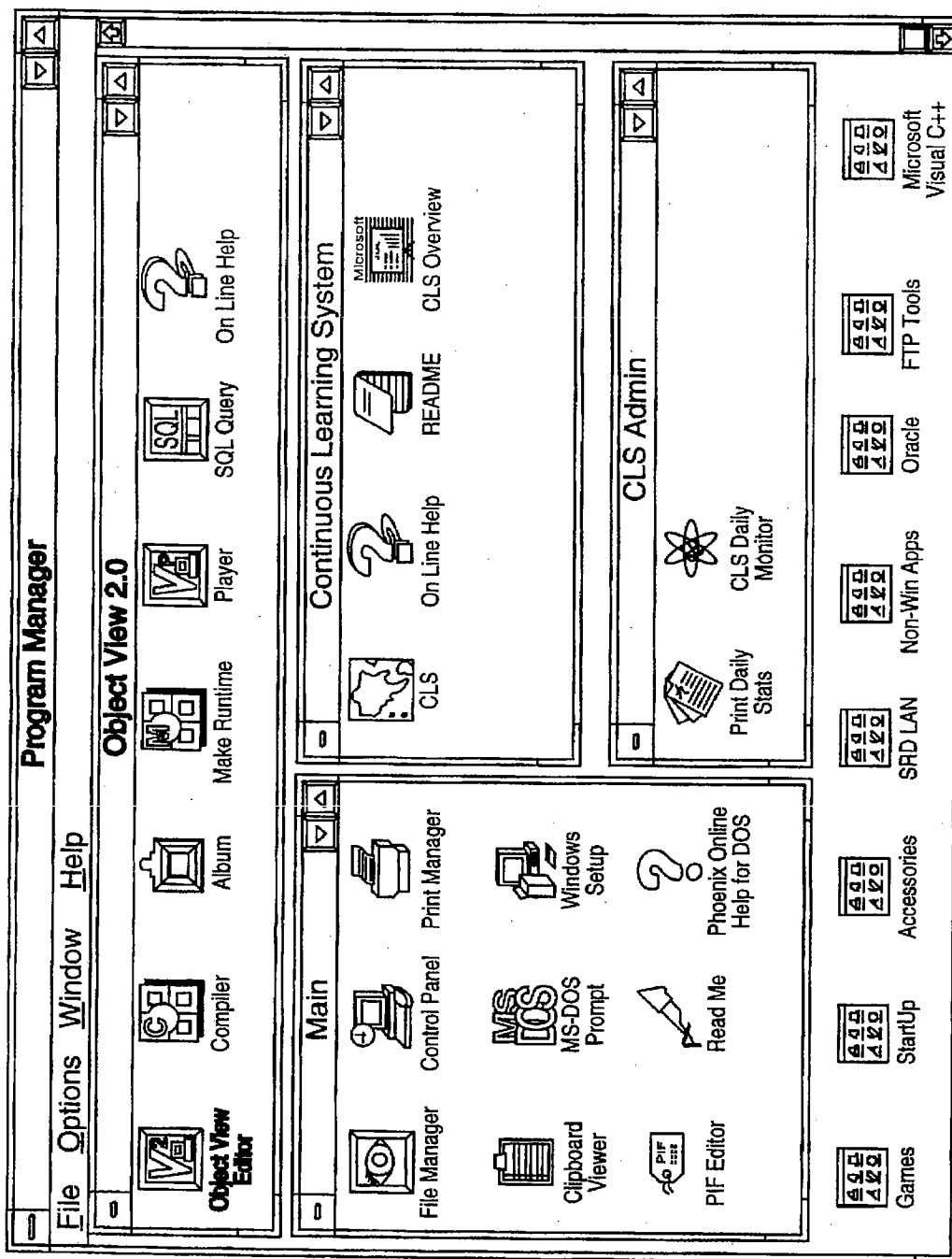
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FIG. 1

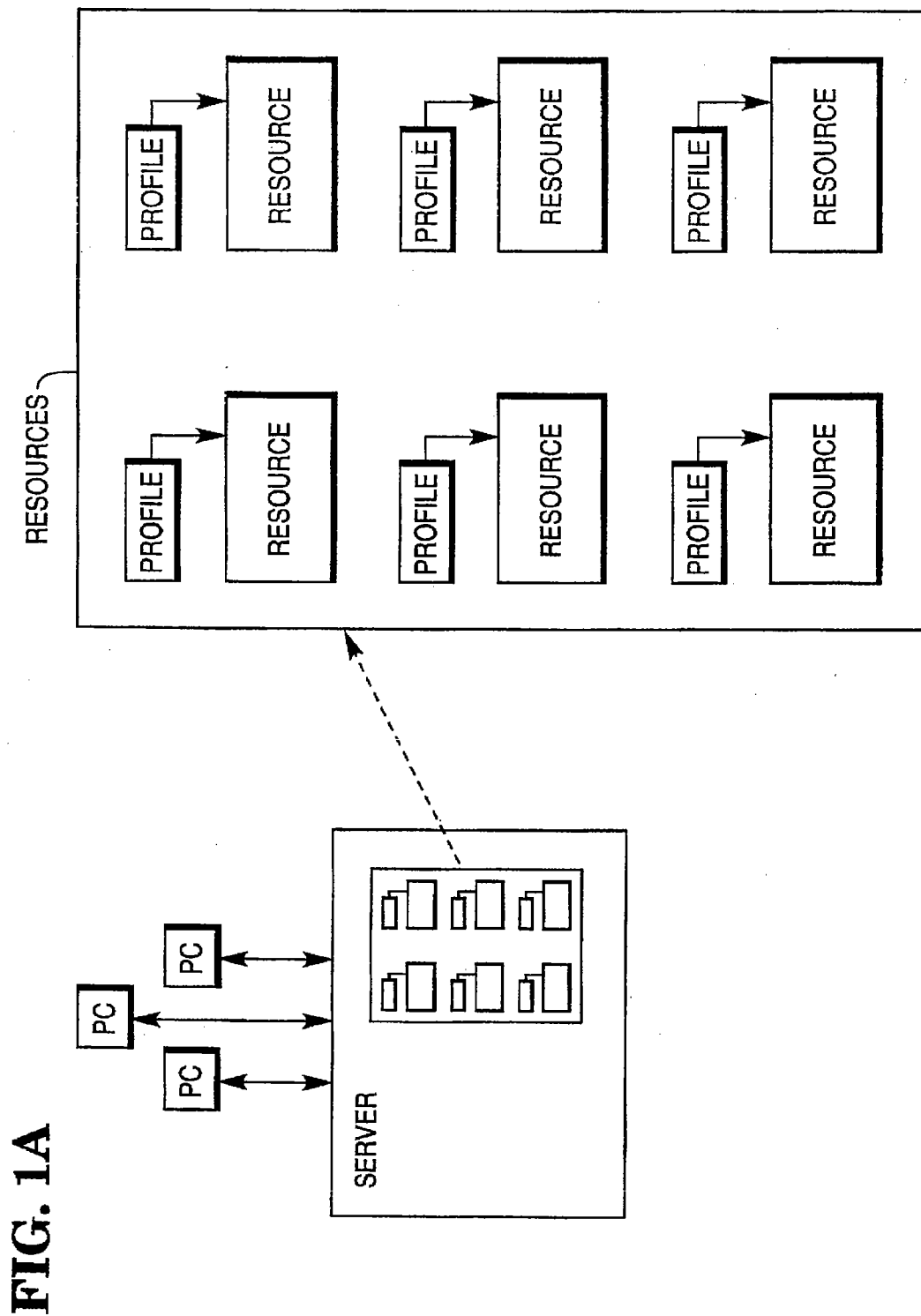


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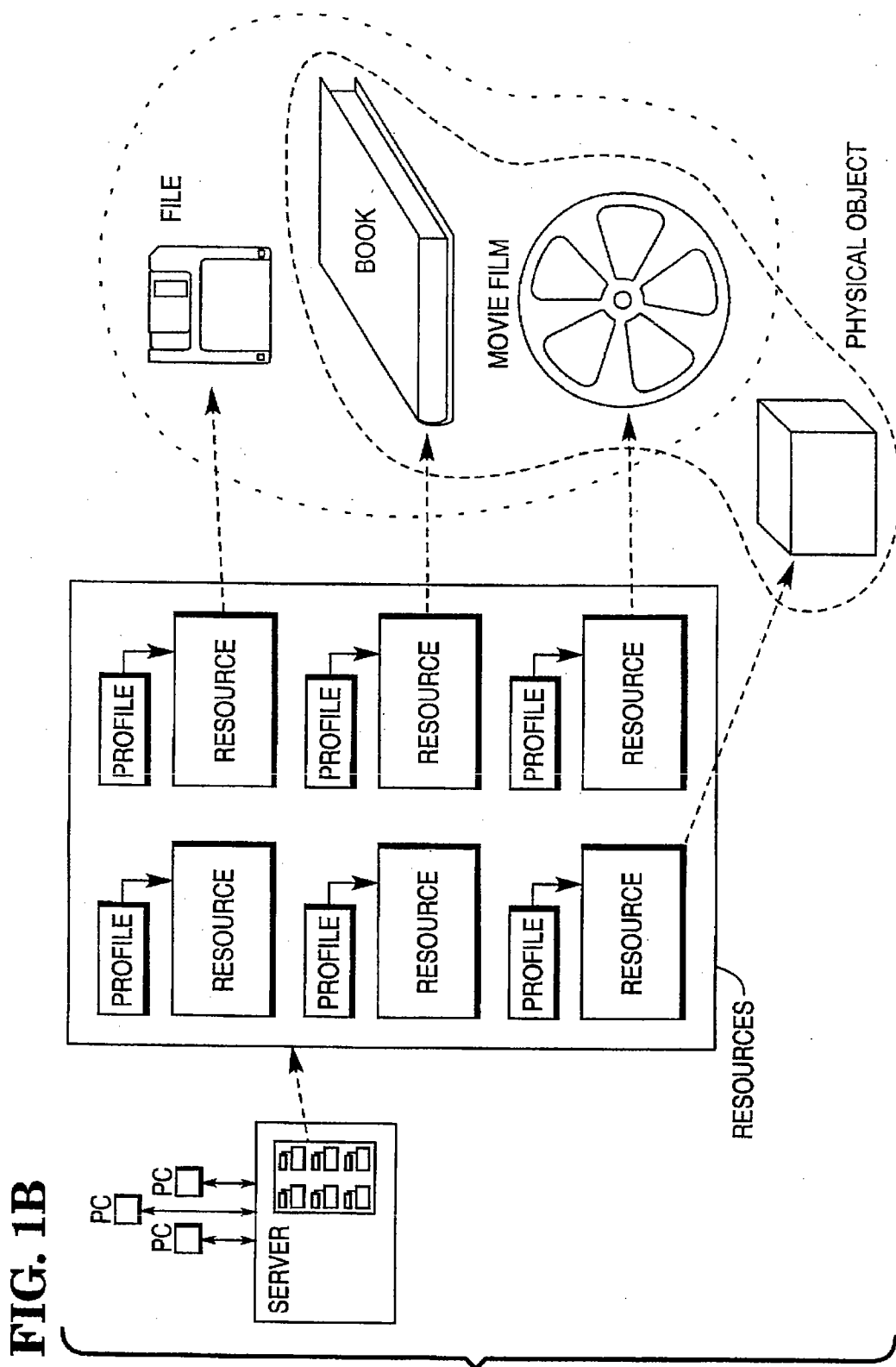


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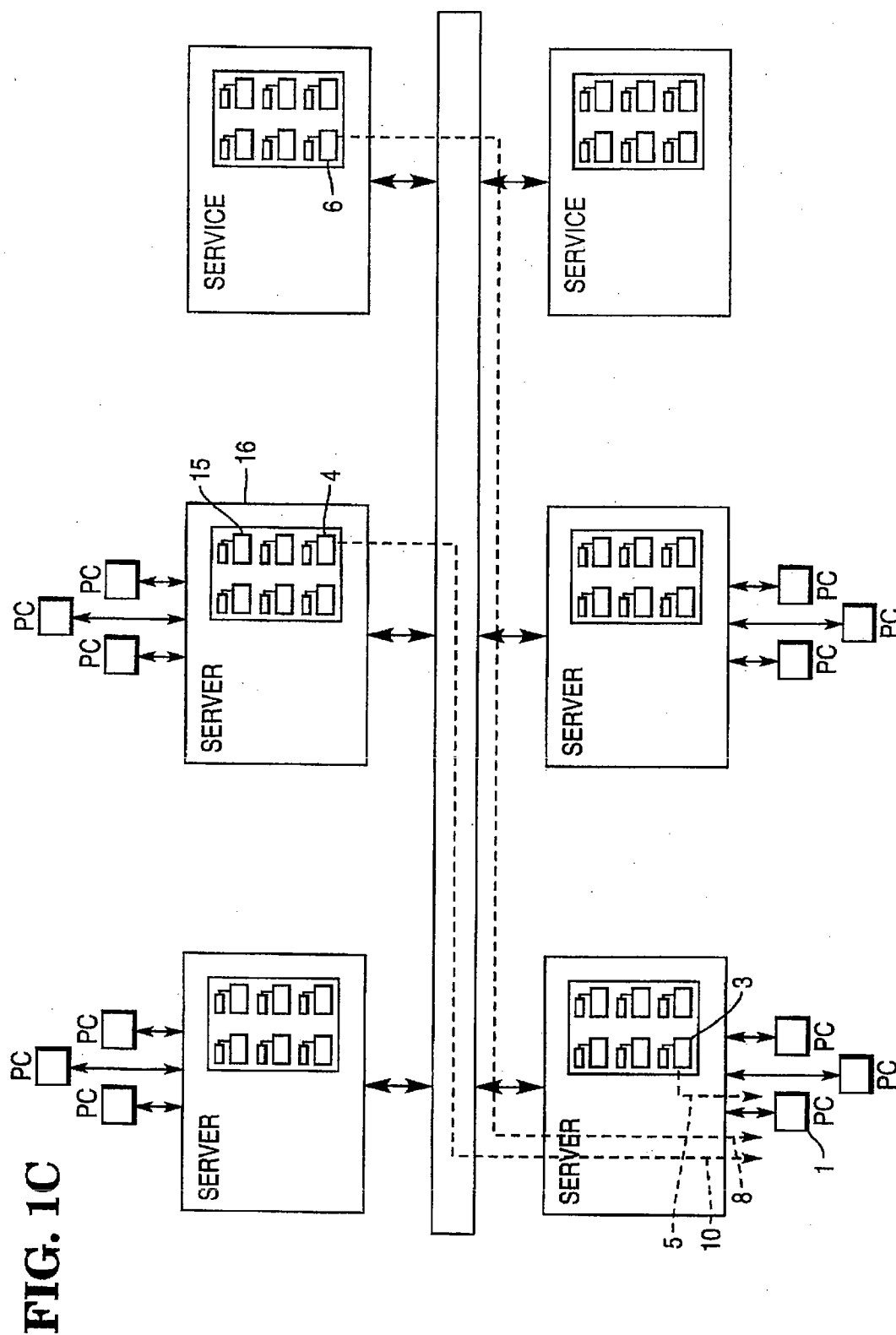
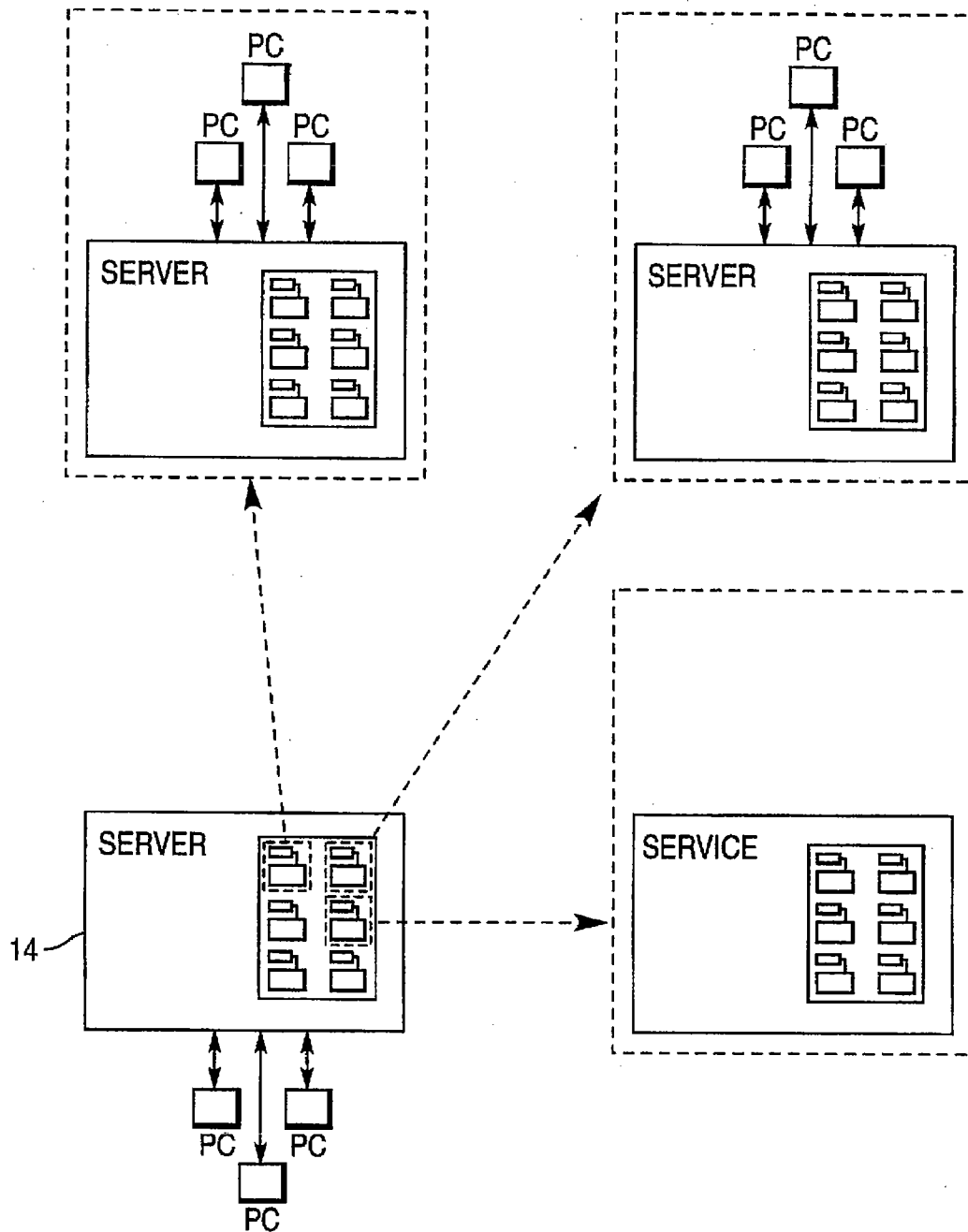


FIG. 1D

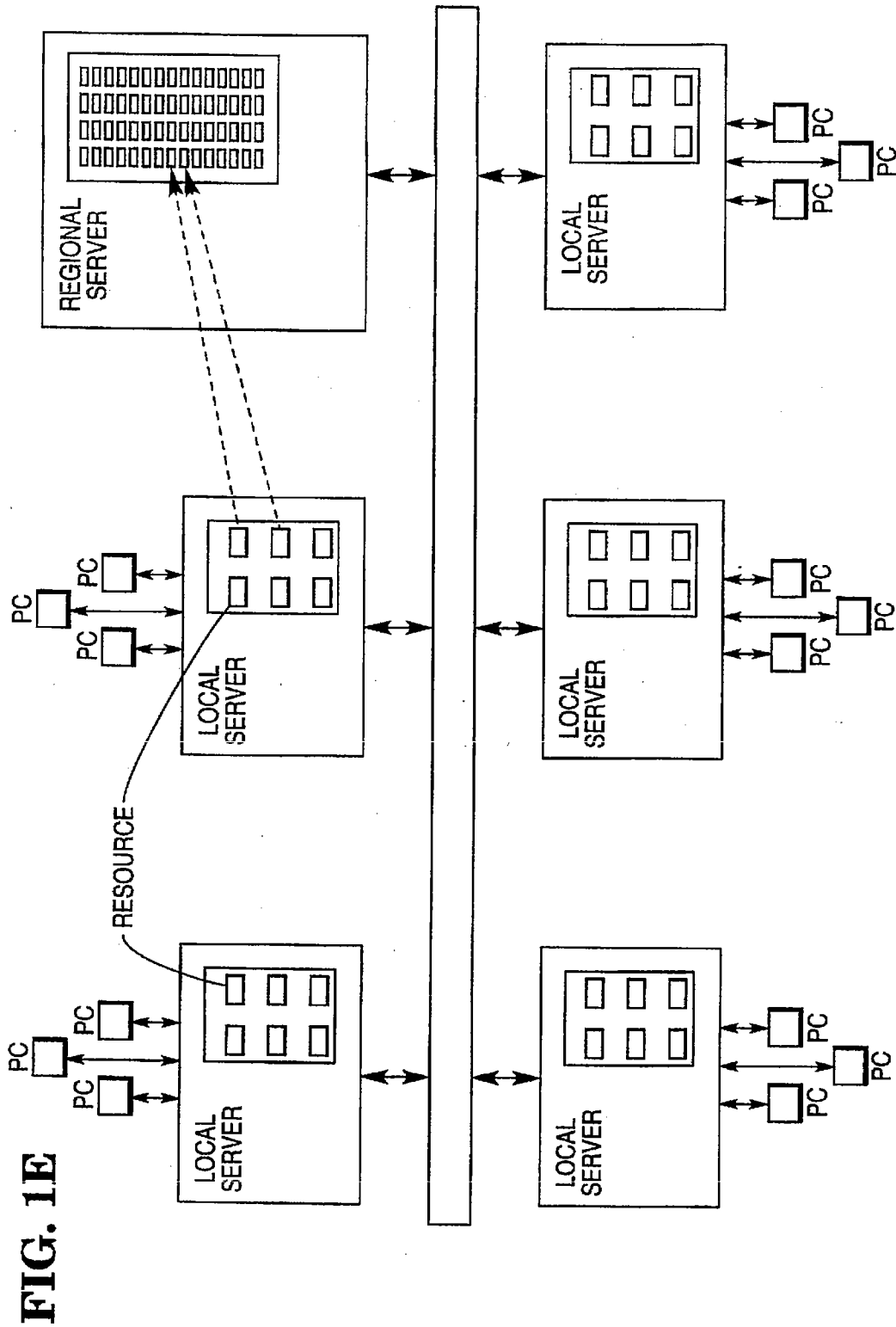


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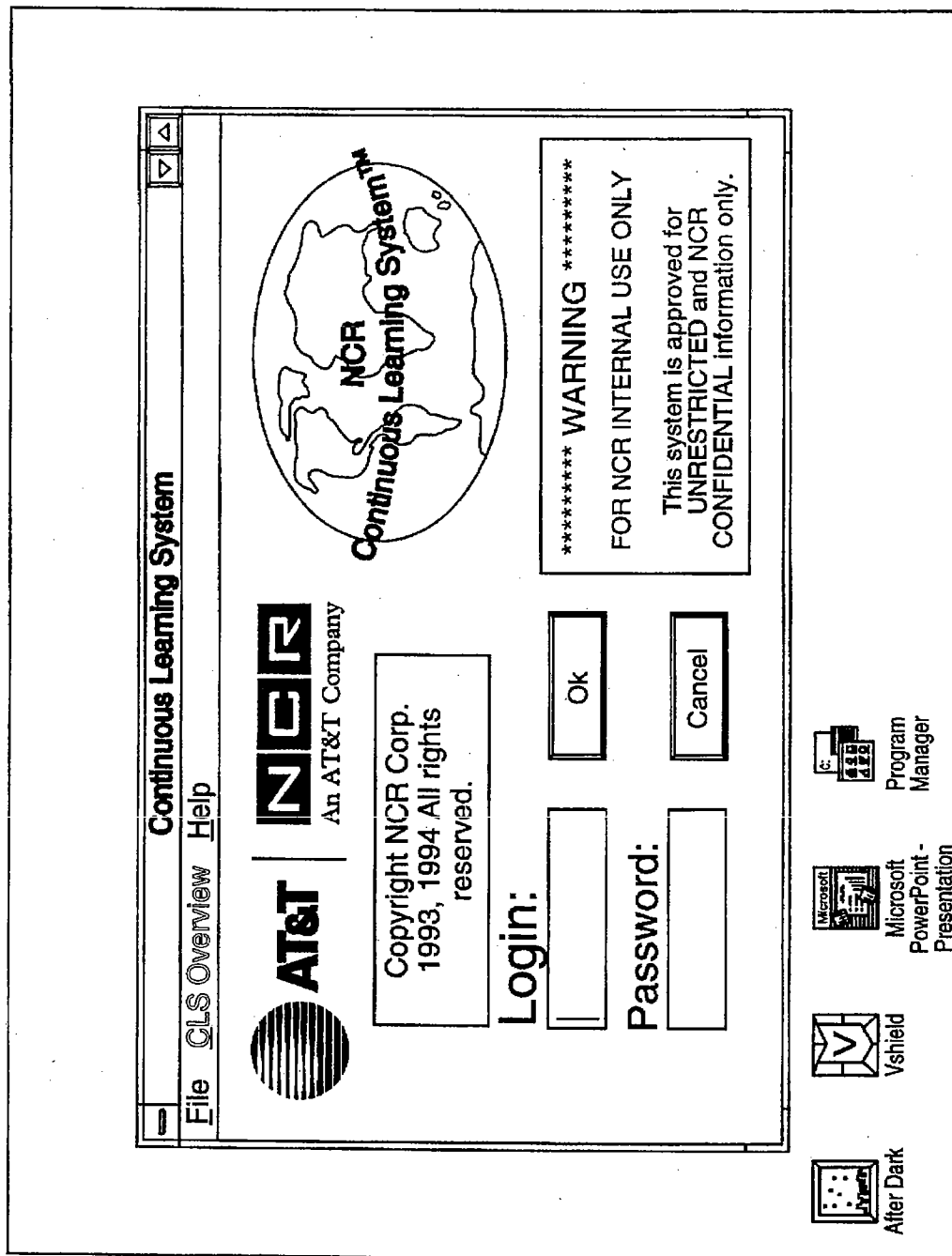
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FIG. 2



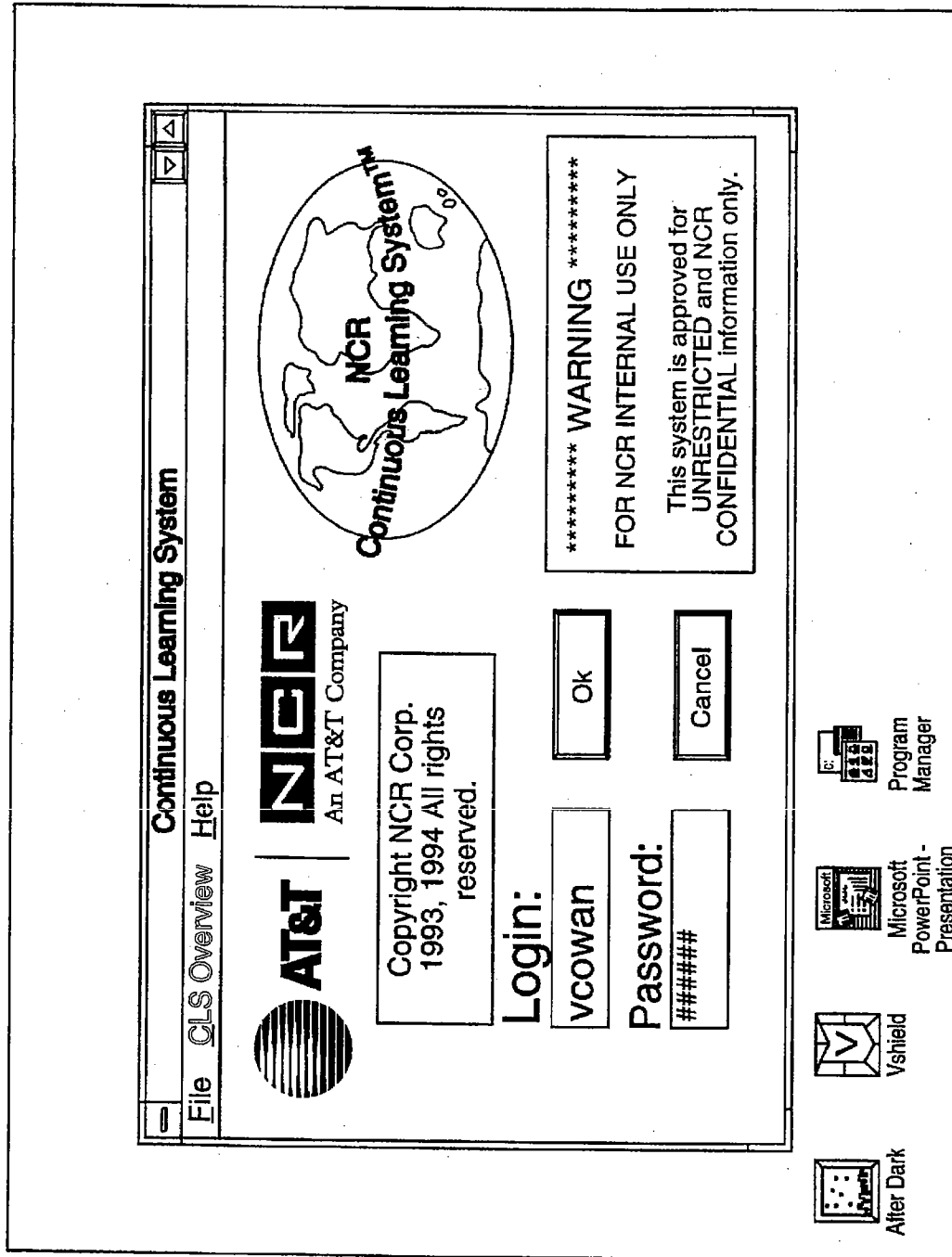
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FIG. 3



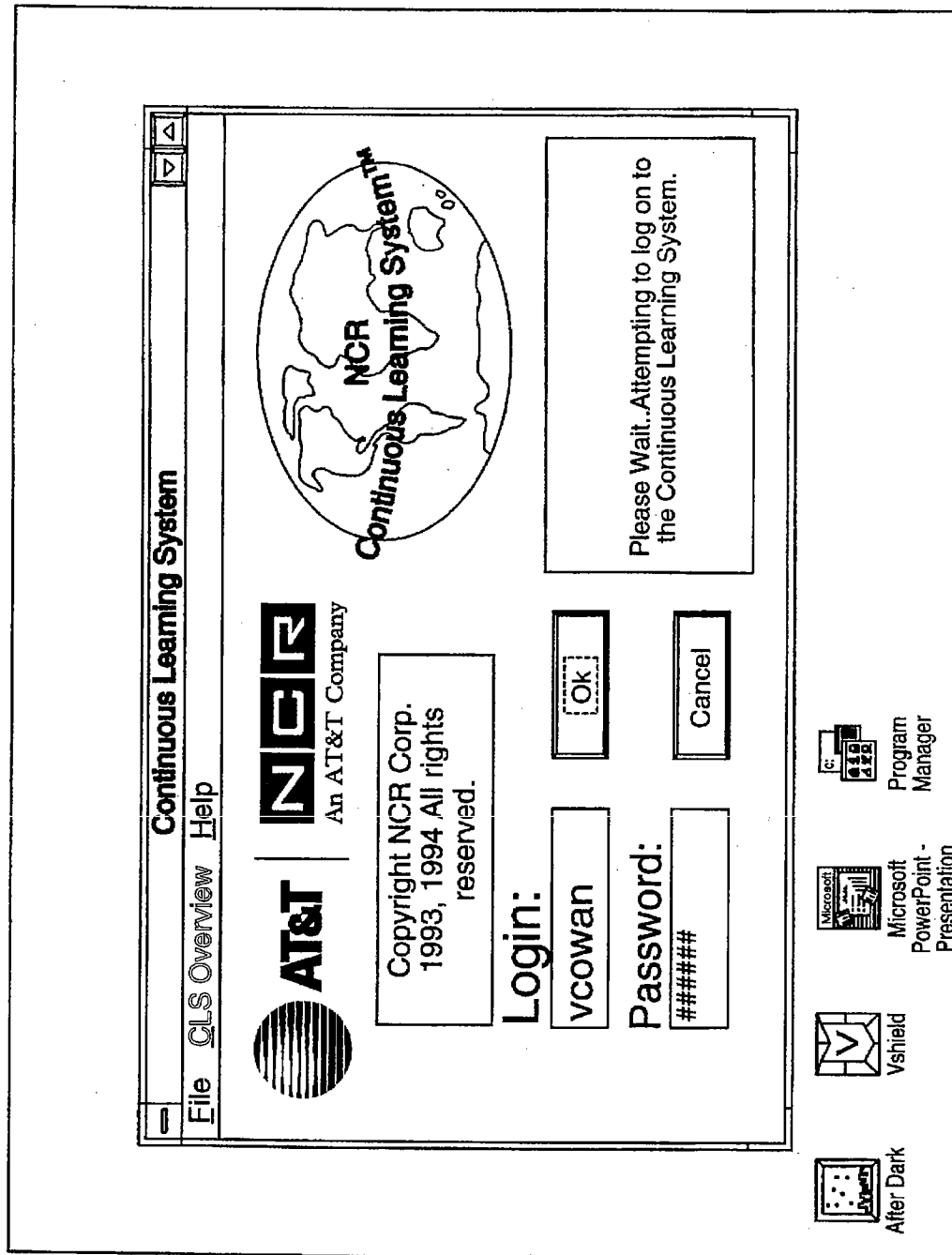
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FIG. 4



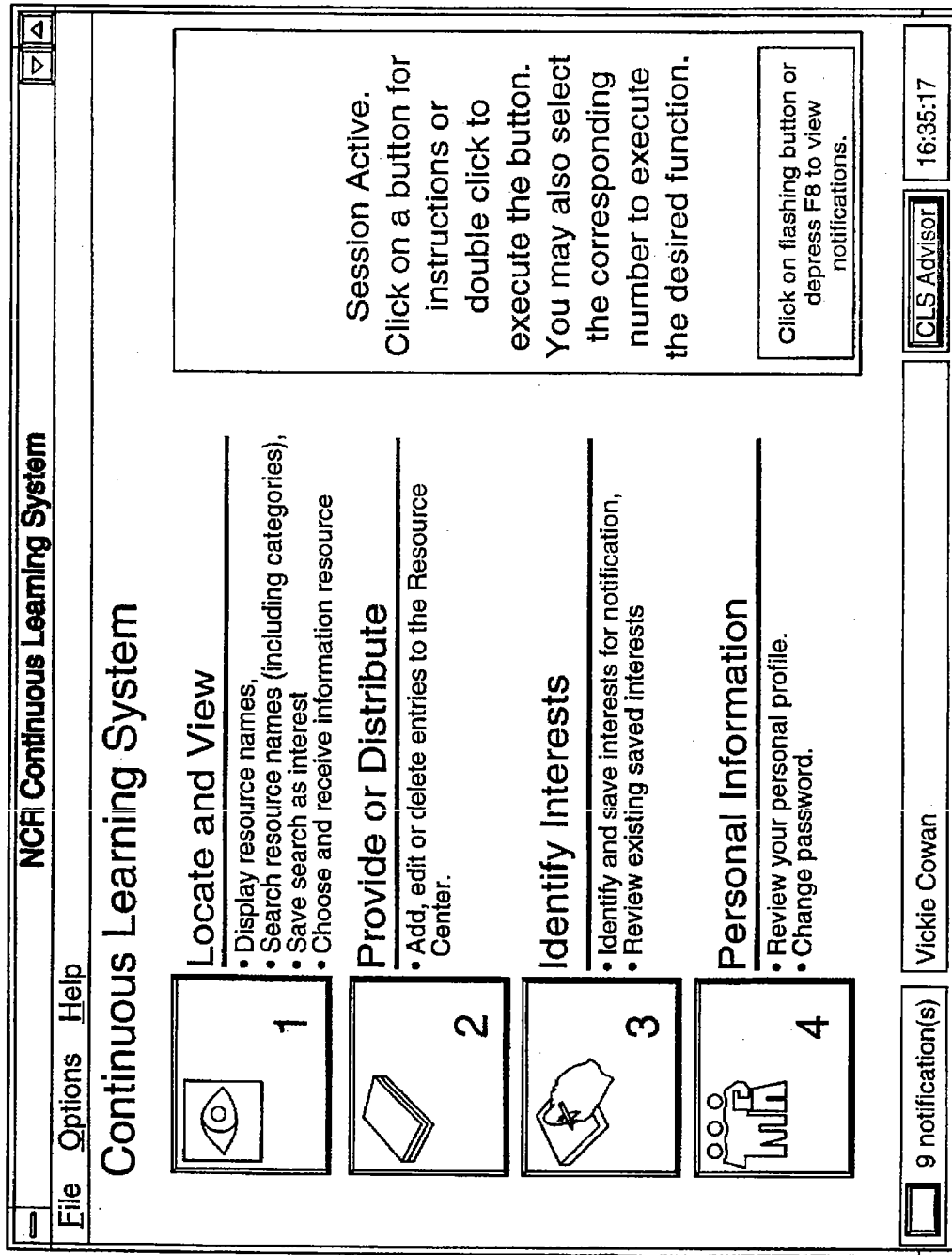
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FIG. 5



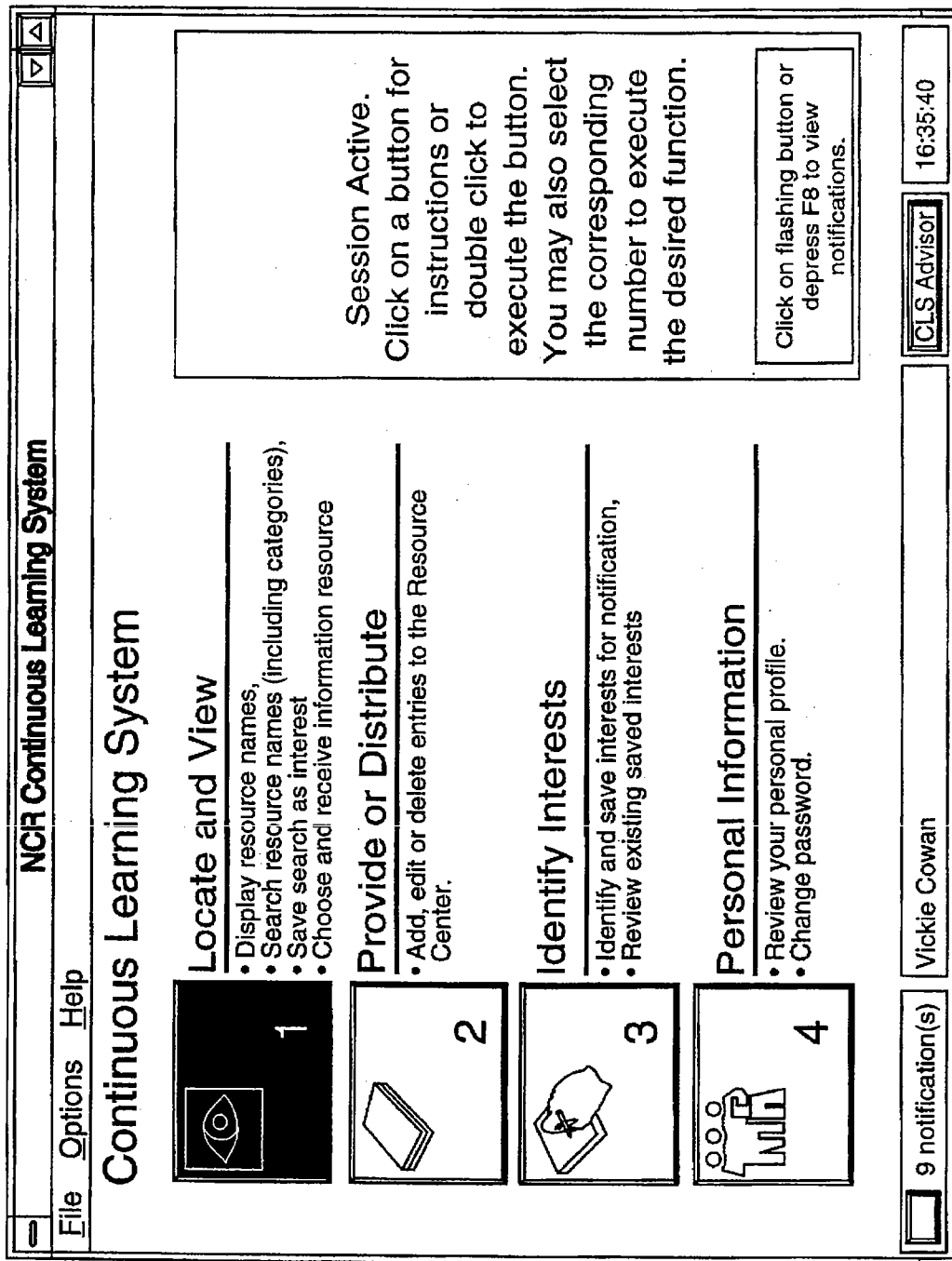
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FIG. 6

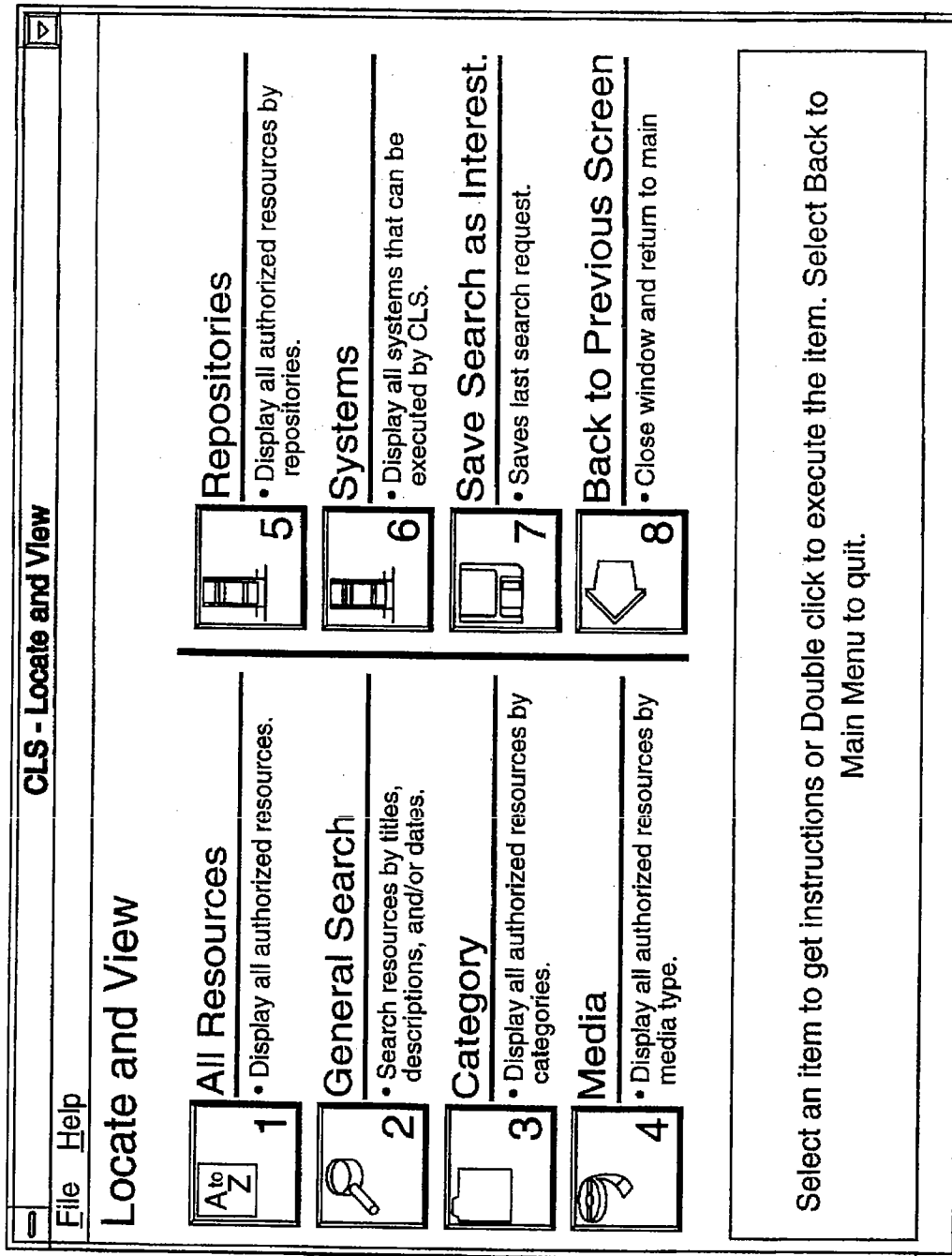


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FIG. 7

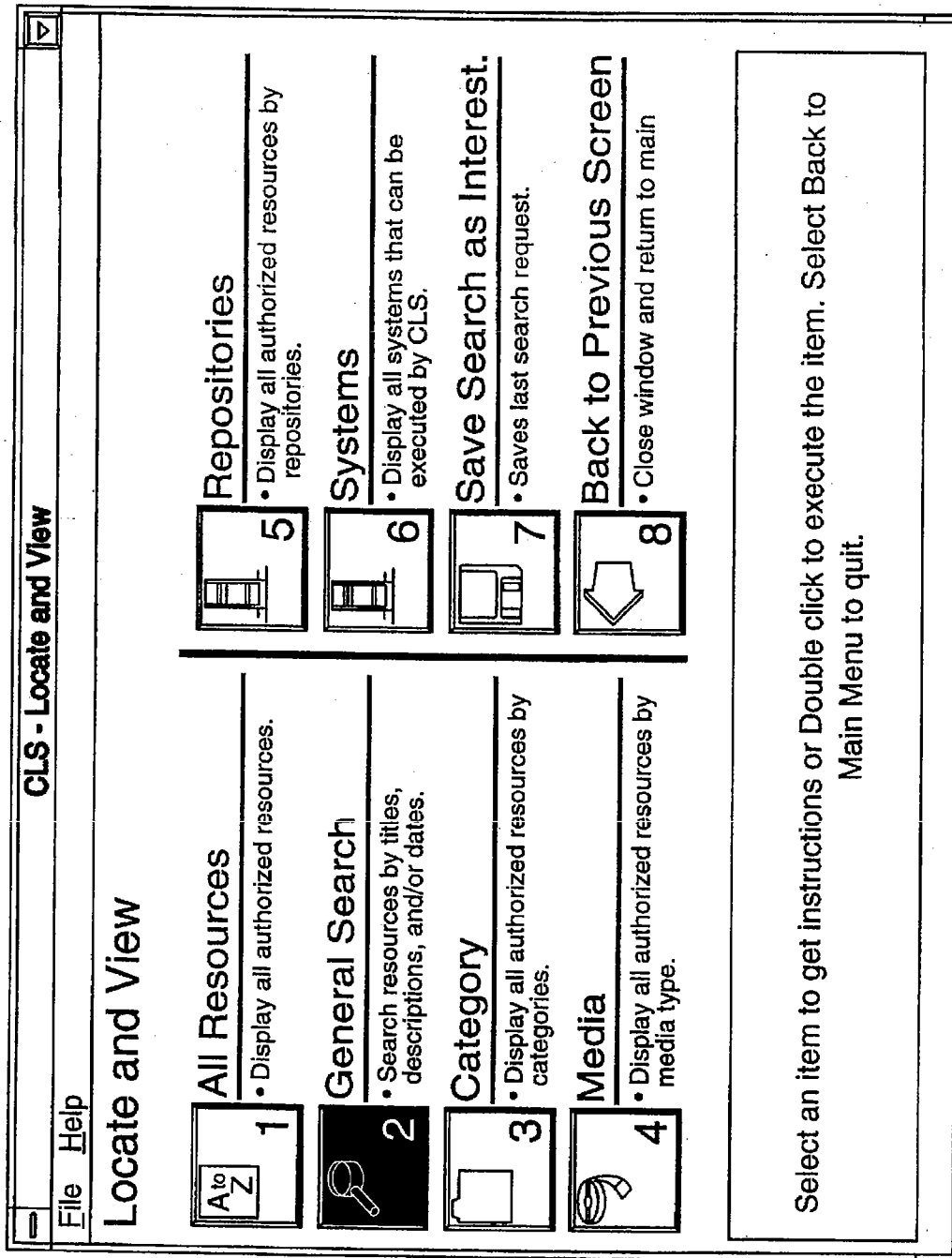
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FIG. 8



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FIG. 9

CLS - Locate and View

File Help

Search

File Help

AND-@ OR-/ NOT-I

Title: AND ON Date: dd/mm/yy

Description:

Ok Cancel Clear Help

media 4

BACK TO PREVIOUS SCREEN

• Display all authorized resources by media type.

• Close window and return to main

Type in your search word, phrase or letters. Click on Search button and if there are any resources that match your search entry a list will be displayed or an error will be displayed. Press F1 for help.

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FIG. 10

CLS - Locate and View

File Help

Search

AND-@ OR-/ NOT-!

Title: unix

Description:

Date: / / dd/mm/yy

AND

OR

OK Cancel Clear Help

Media

4

8

BACK TO PREVIOUS SCREEN

- Display all authorized resources by media type.
- Close window and return to main

Type in your search word, phrase or letters. Click on Search button and if there are any resources that match your search entry a list will be displayed or an error will be displayed. Press F1 for help.

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FIG. 11

Catalog Search Results

File Help

Resource Profile...

7 entries returned.

	Media	Date/Time	Title
1	On Line	12/08/93 16:25	WWSM - NCR UNIX "Ready for Prime Time"
2	On Line	12/16/93 13:53	UNIX Reference Pak: Part 1 of 4 - Table of contents
3	On Line	12/16/93 14:02	UNIX Reference Pak: Part 2 of 4 - AT&T/NCRs Position on
4	On Line	12/16/93 14:05	UNIX Reference Pak: Part 3 of 4 - System Overview
5	On Line	12/16/93 14:09	UNIX Reference Pak: Part 4 of 4 - HP-UX vs. NCR SVR4 M
6	On Line	01/03/94 15:52	NCR UNIX SVR4 MP-RAS Rel 2.02 Release Letter
7	On Line	01/19/94 09:57	NCR UNIX Online Library

Retrieve Close

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FIG. 12

Catalog Search Results

File Help

Resource Profile...

7 entries returned.

	Media	Date/Time	Title
1	On Line	12/08/93 16:25	WWSM - NCR UNIX "Ready for Prime Time"
2	On Line	12/16/93 13:53	UNIX Reference Pak: Part 1 of 4 - Table of contents
3	On Line	12/16/93 14:02	UNIX Reference Pak: Part 2 of 4 - AT&T/NCRs Position on
4	On Line	12/16/93 14:05	UNIX Reference Pak: Part 3 of 4 - System Overview
5	On Line	12/16/93 14:09	UNIX Reference Pak: Part 4 of 4 - HP-UX vs. NCR SVR4 M
6	On Line	01/03/94 15:52	NCR UNIX SVR4 MP-RAS Rel 2.02 Release Letter
7	On Line	01/19/94 09:57	NCR UNIX Online Library

Retrieve Close

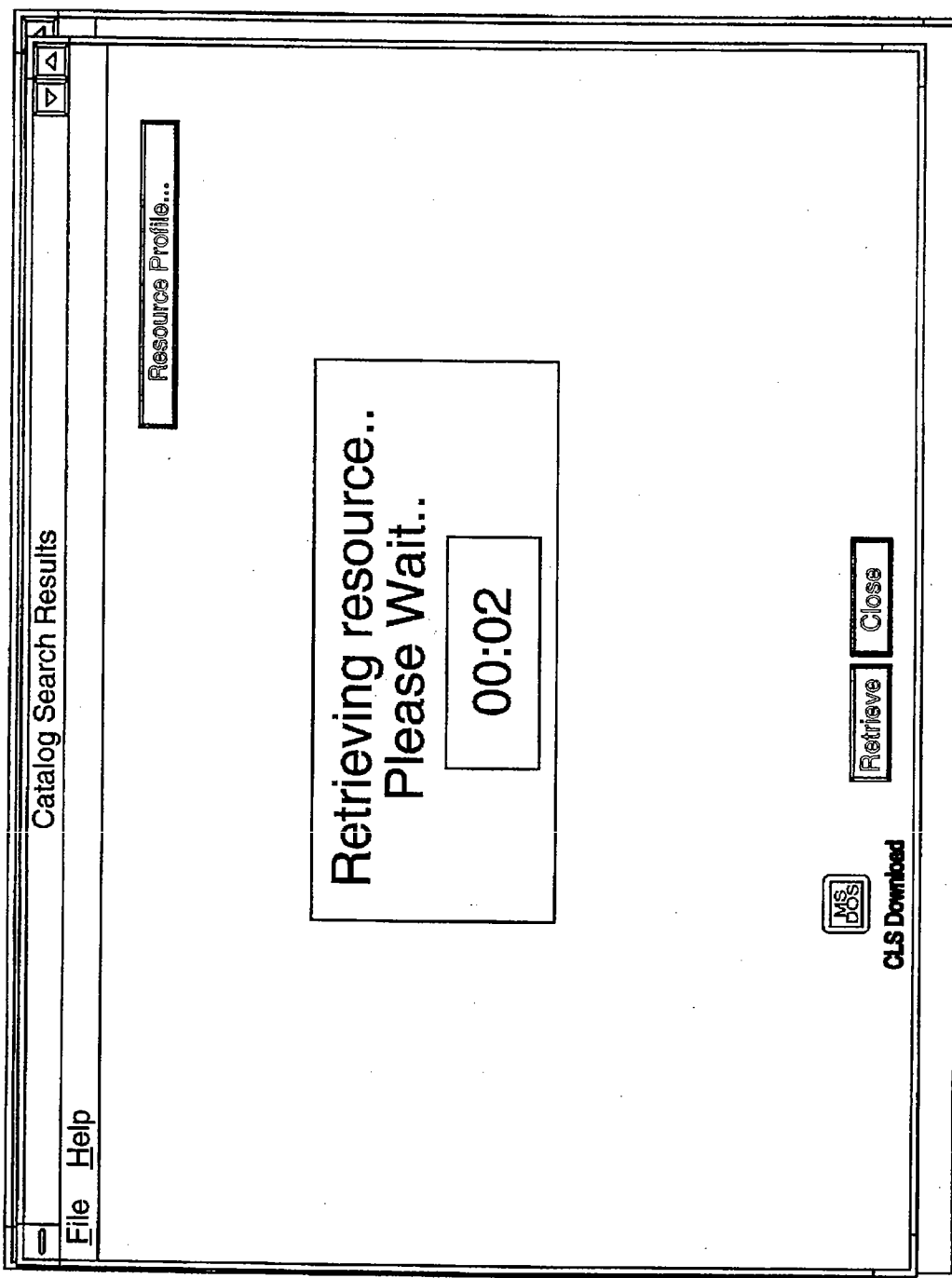
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FIG. 13



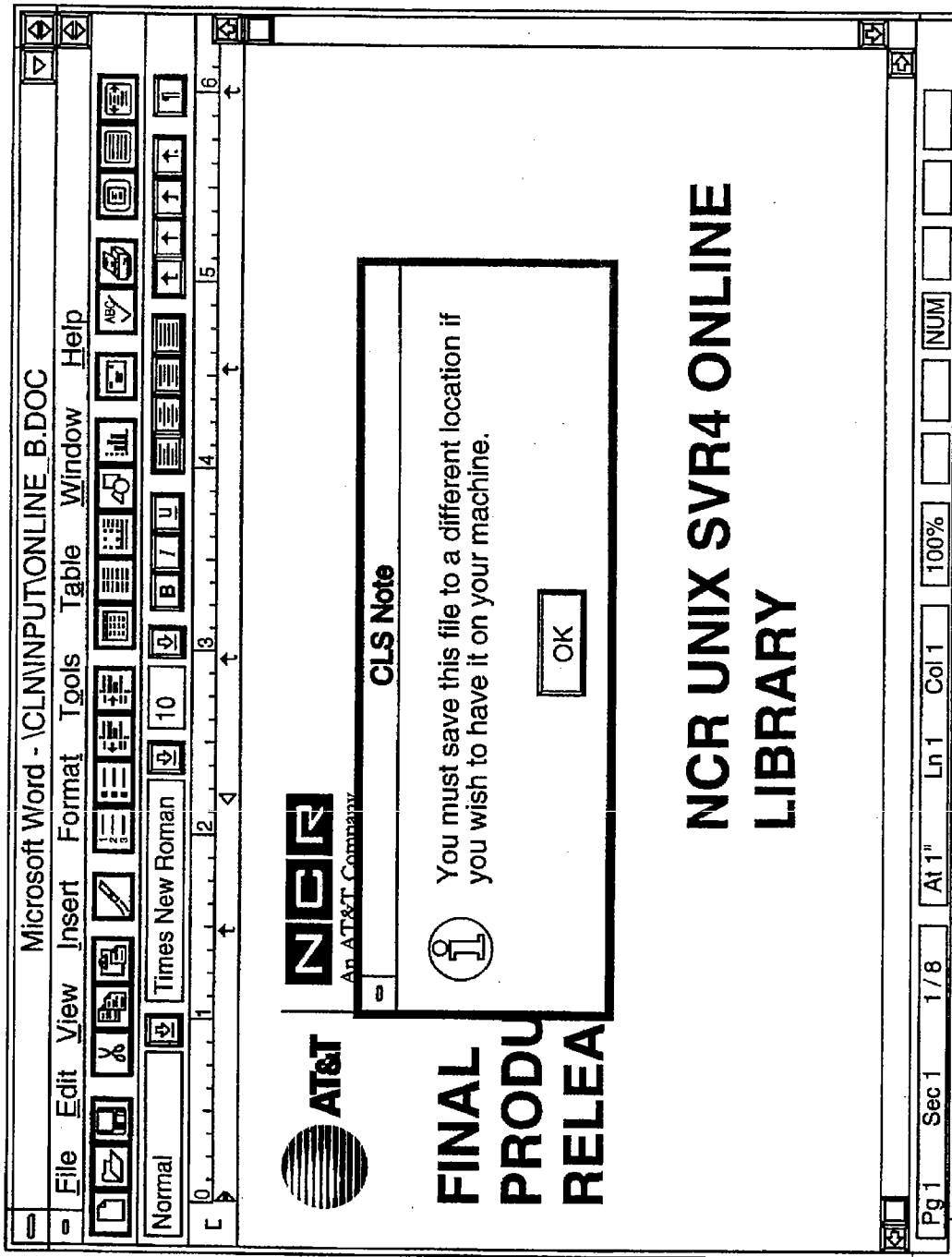
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FIG. 14



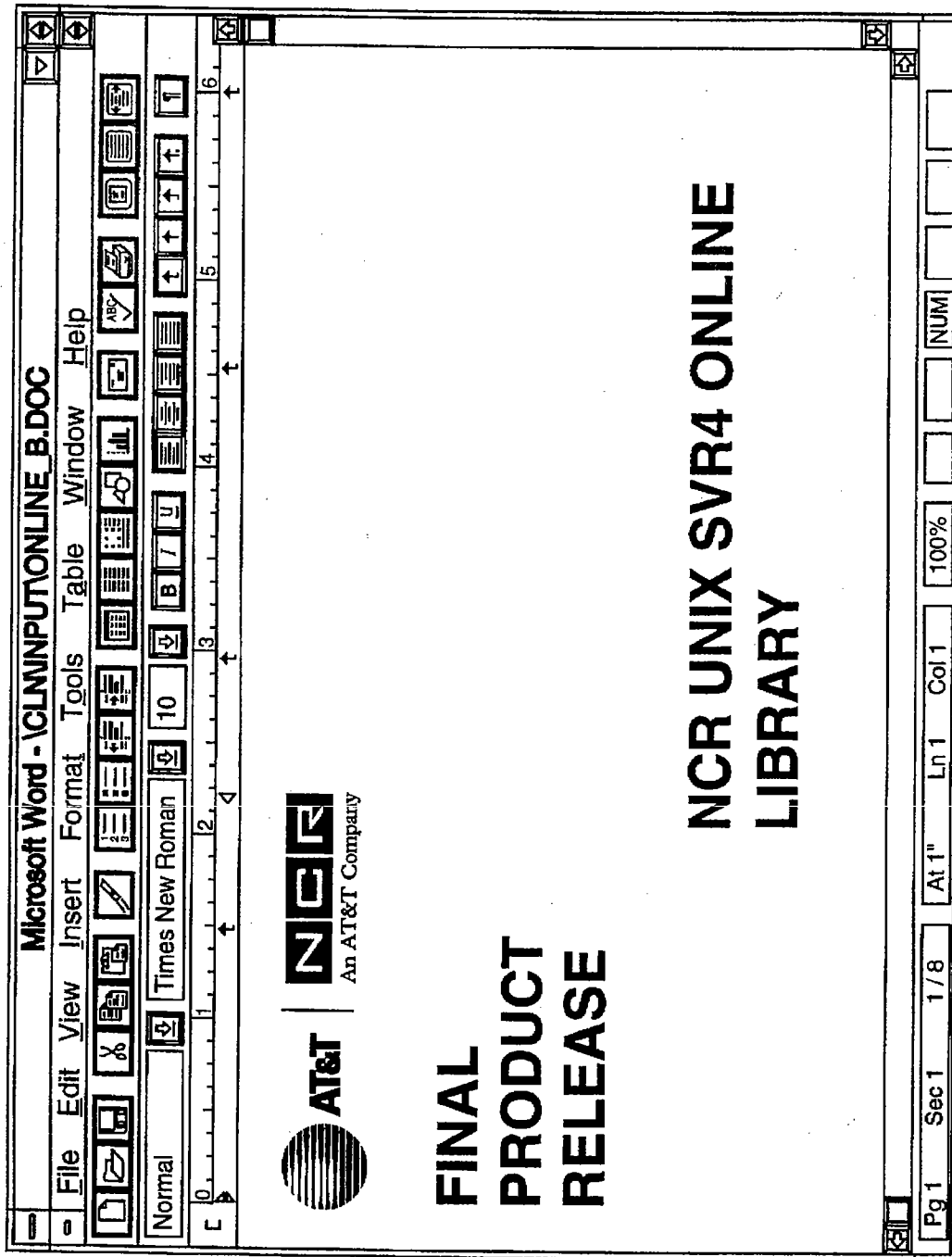
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FIG. 15



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FIG. 16

CLS - Locate and View

File Help

Search

File Help

AND-@ OR-/ NOT-!

Title: unix@library

AND

Description:

ON

Date: / / dd/mm/yy

Ok Cancel Clear Help

BACK TO PREVIOUS SCREEN

• Close window and return to main

media

• Display all authorized resources by media type.

Type in your search word, phrase or letters. Click on Search button and if there are any resources that match your search entry a list will be displayed or an error will be displayed. Press F1 for help.

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FIG. 17

The screenshot shows a web browser window with a title bar and menu bar. The main content area displays 'Catalog Search Results'. On the left, there is a sidebar with 'File' and 'Help' links, and a 'Resource Profile...' button. The main area shows '1 entries returned.' and a table with columns: Media, Date/Time, and Title. The table contains one entry: '1 On Line' with date '01/19/94' and time '09:57', and title 'NCR UNIX Online Library'. At the bottom right, there are 'Retrieve' and 'Close' buttons.

Media	Date/Time	Title
1 On Line	01/19/94 09:57	NCR UNIX Online Library

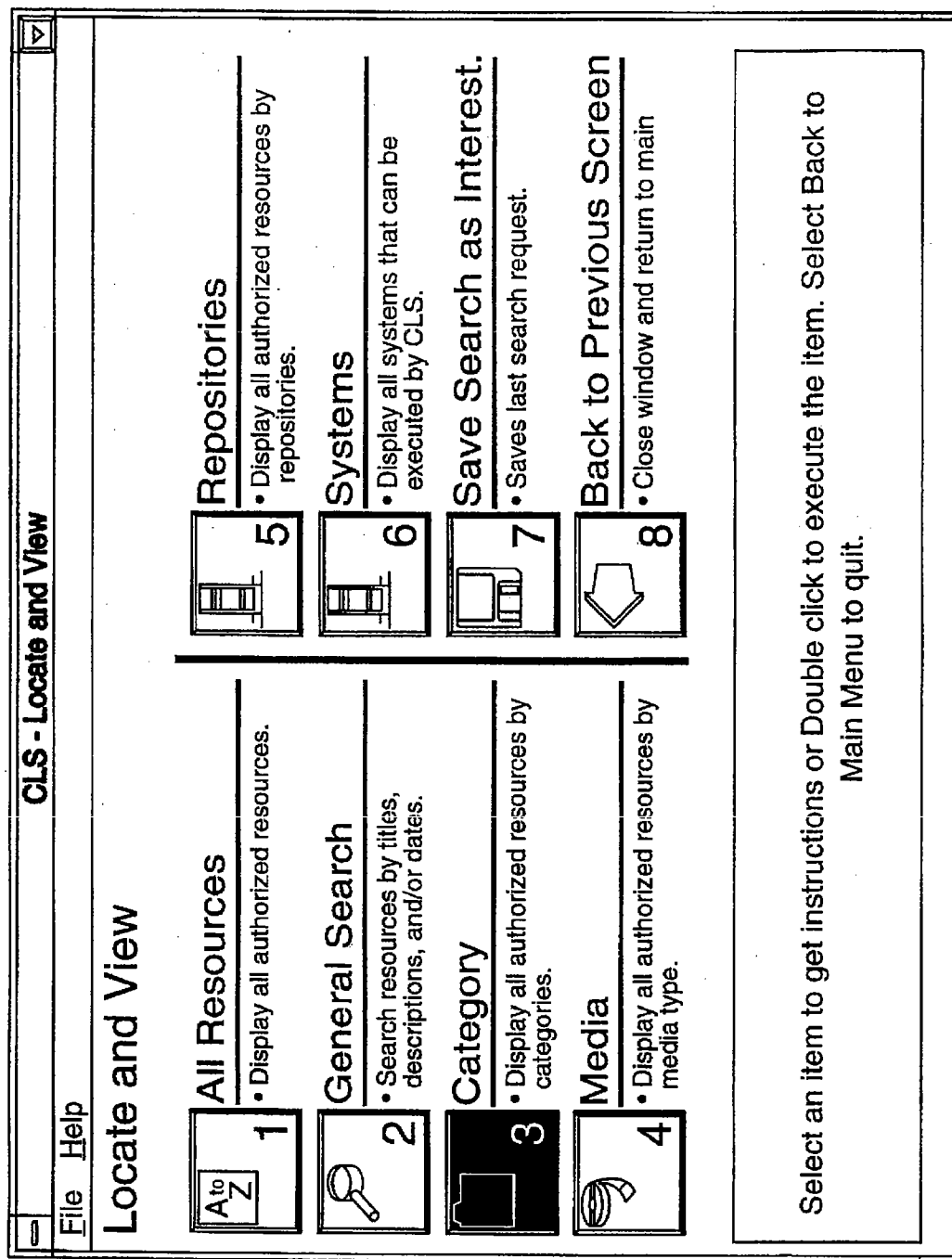
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FIG. 18



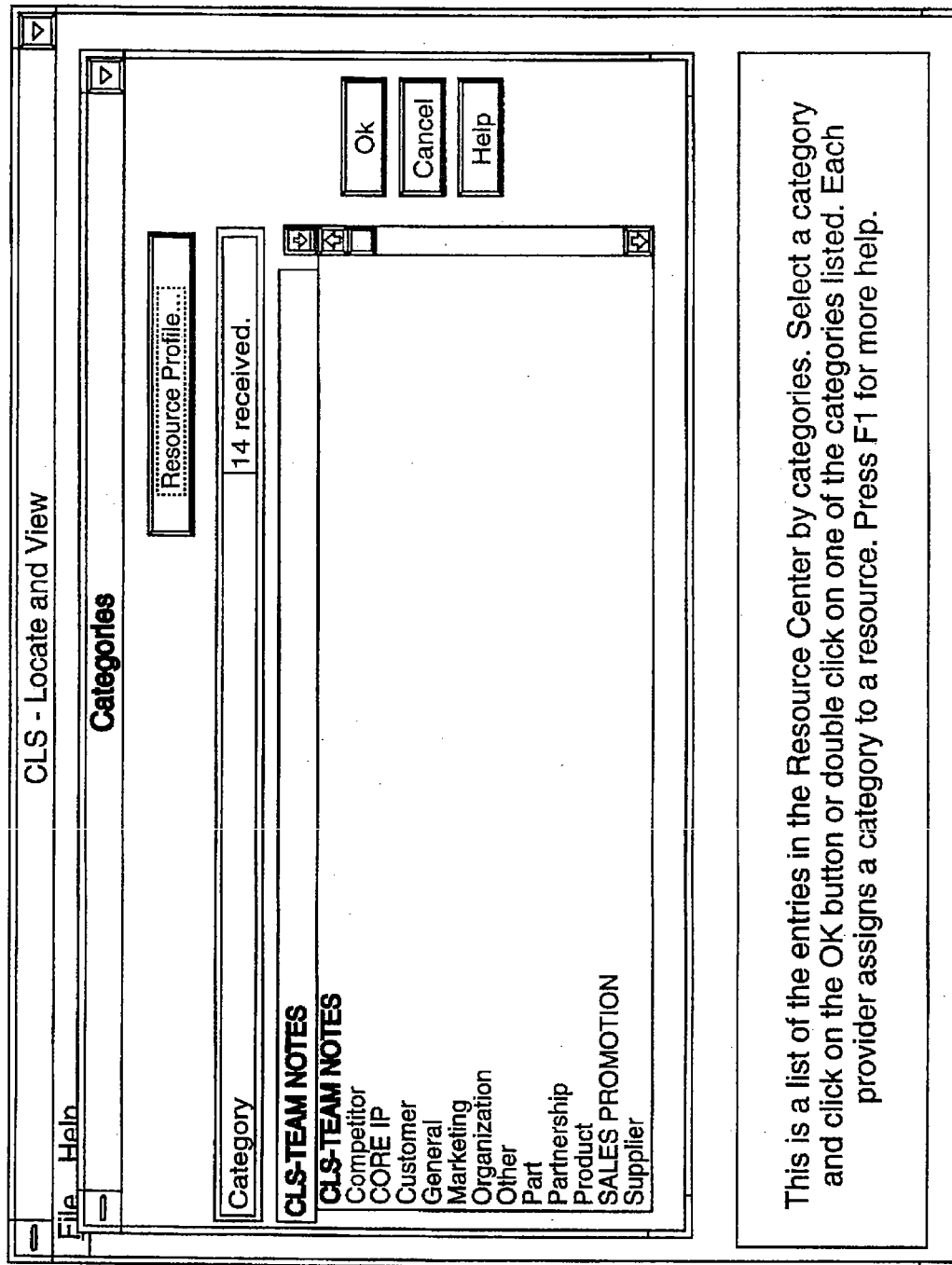
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FIG. 19



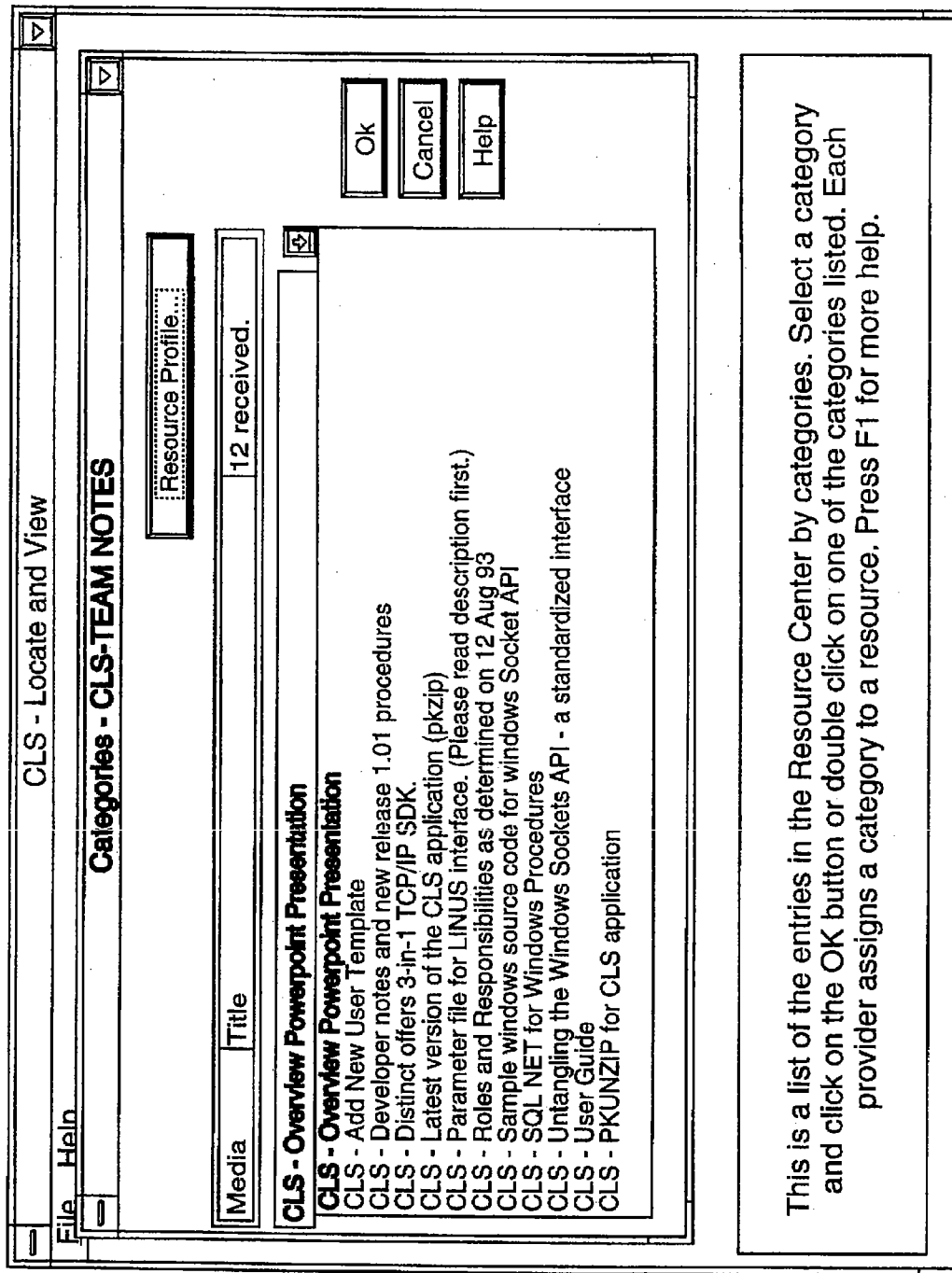
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FIG. 20



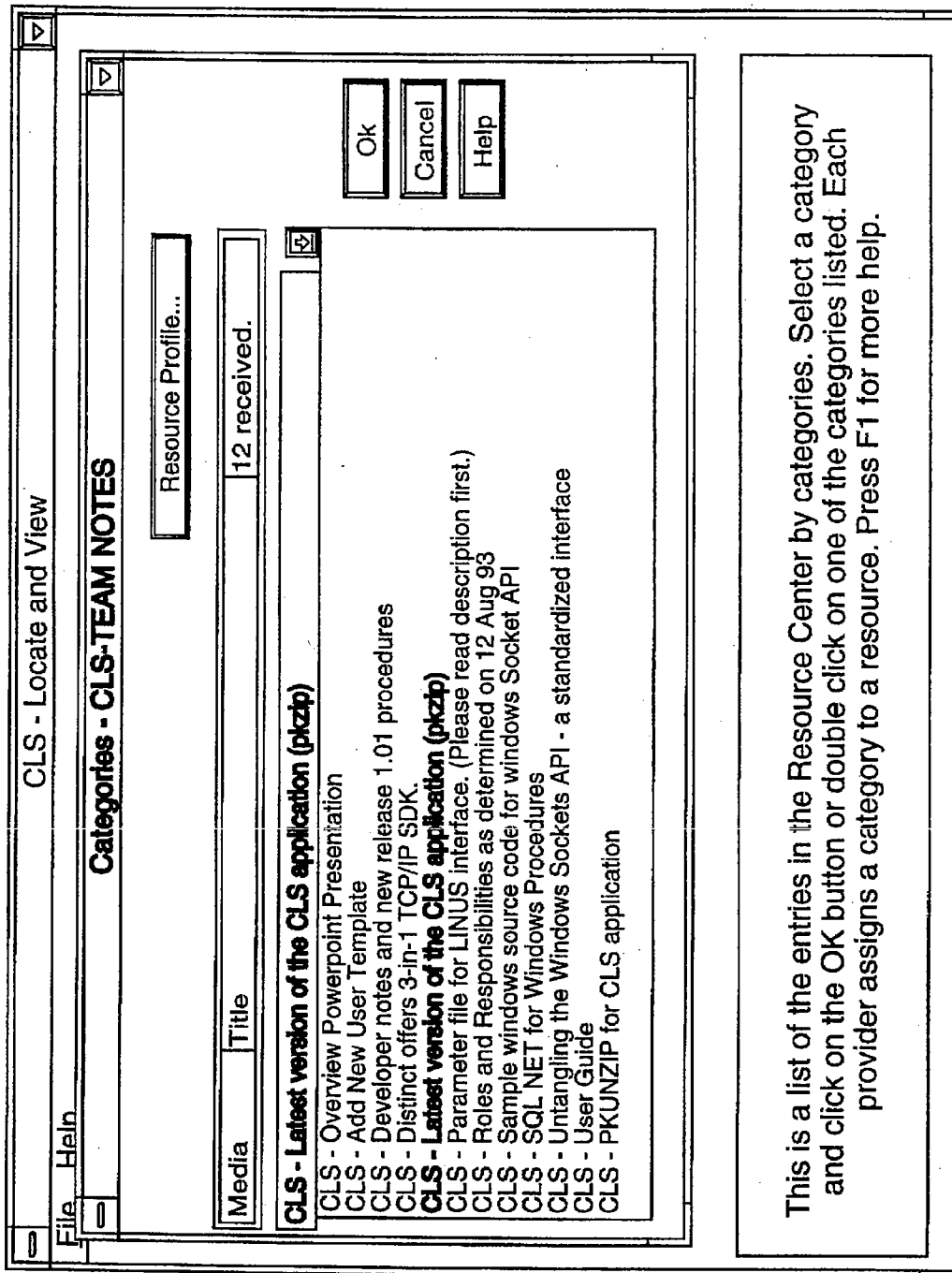
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FIG. 21



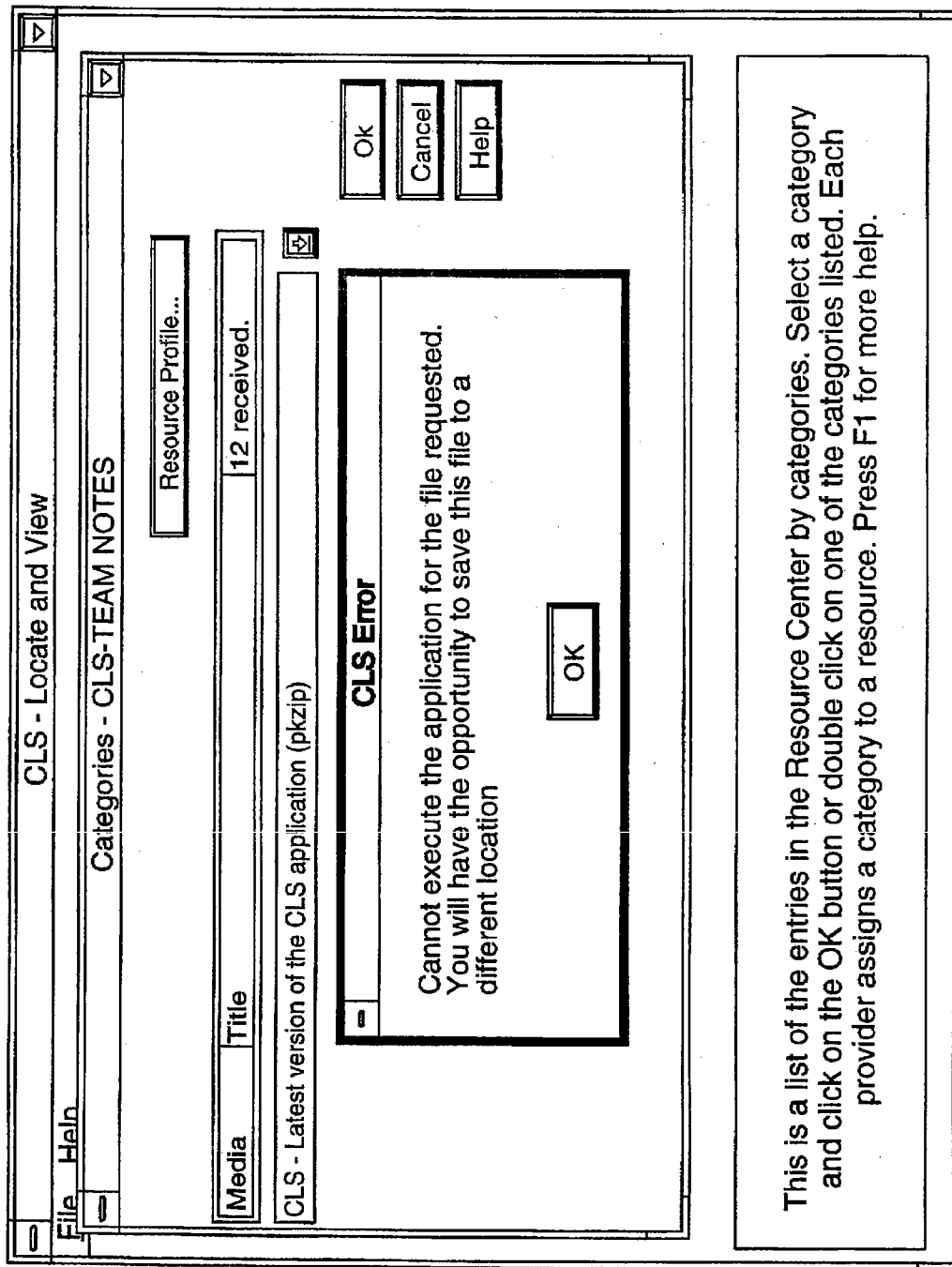
This is a list of the entries in the Resource Center by categories. Select a category and click on the OK button or double click on one of the categories listed. Each provider assigns a category to a resource. Press F1 for more help.

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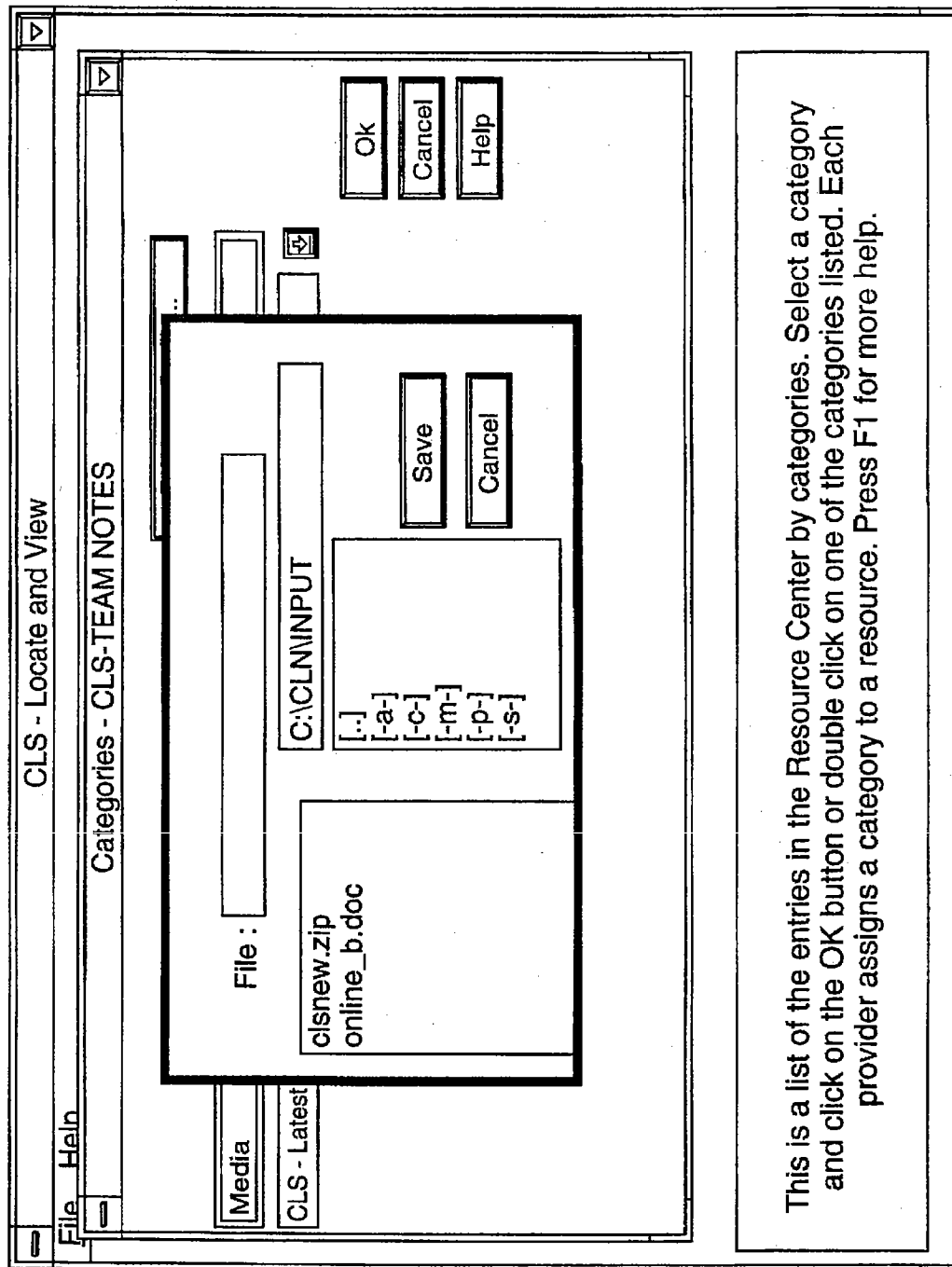
FIG. 22

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FIG. 23

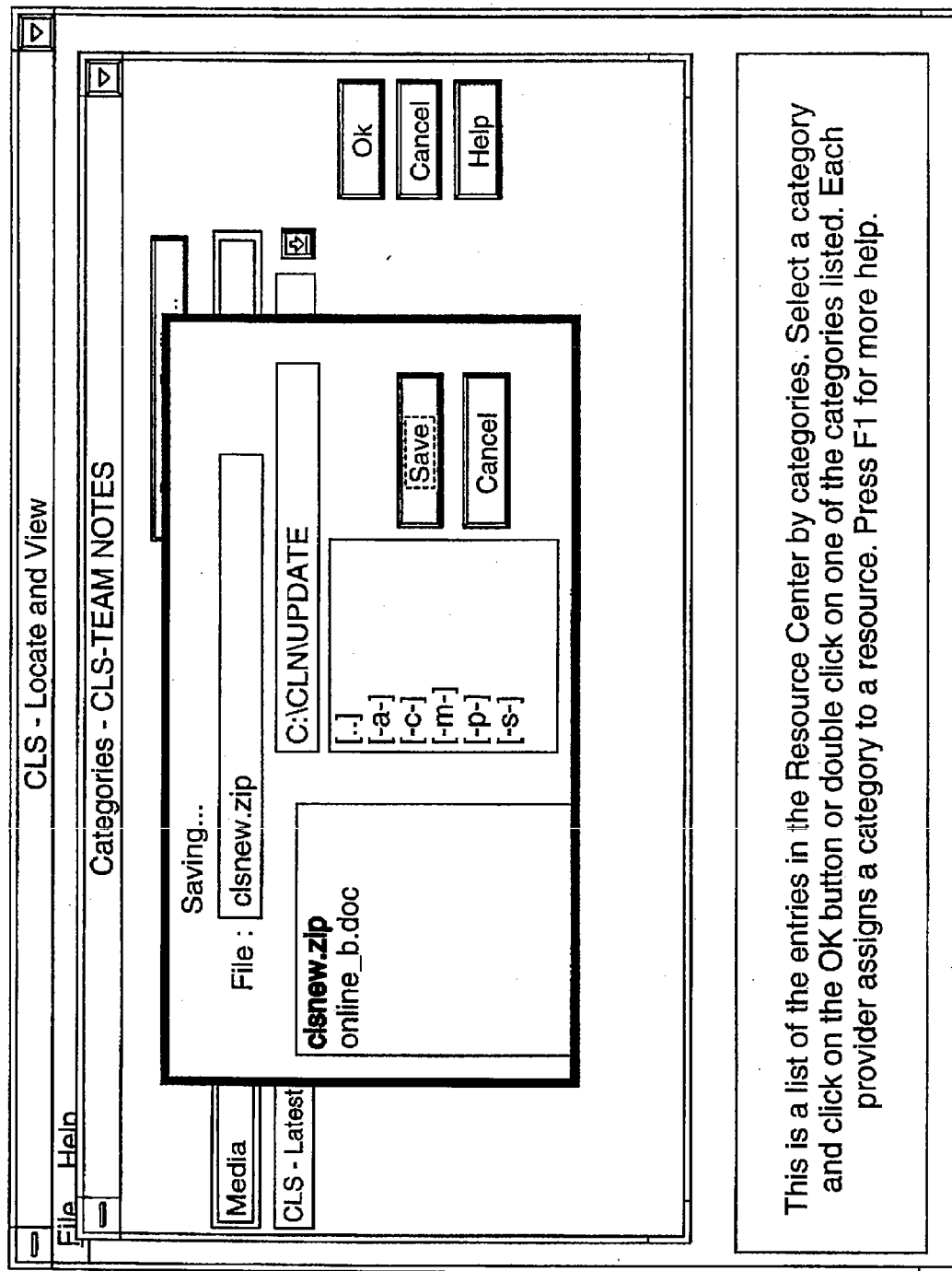
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FIG. 24



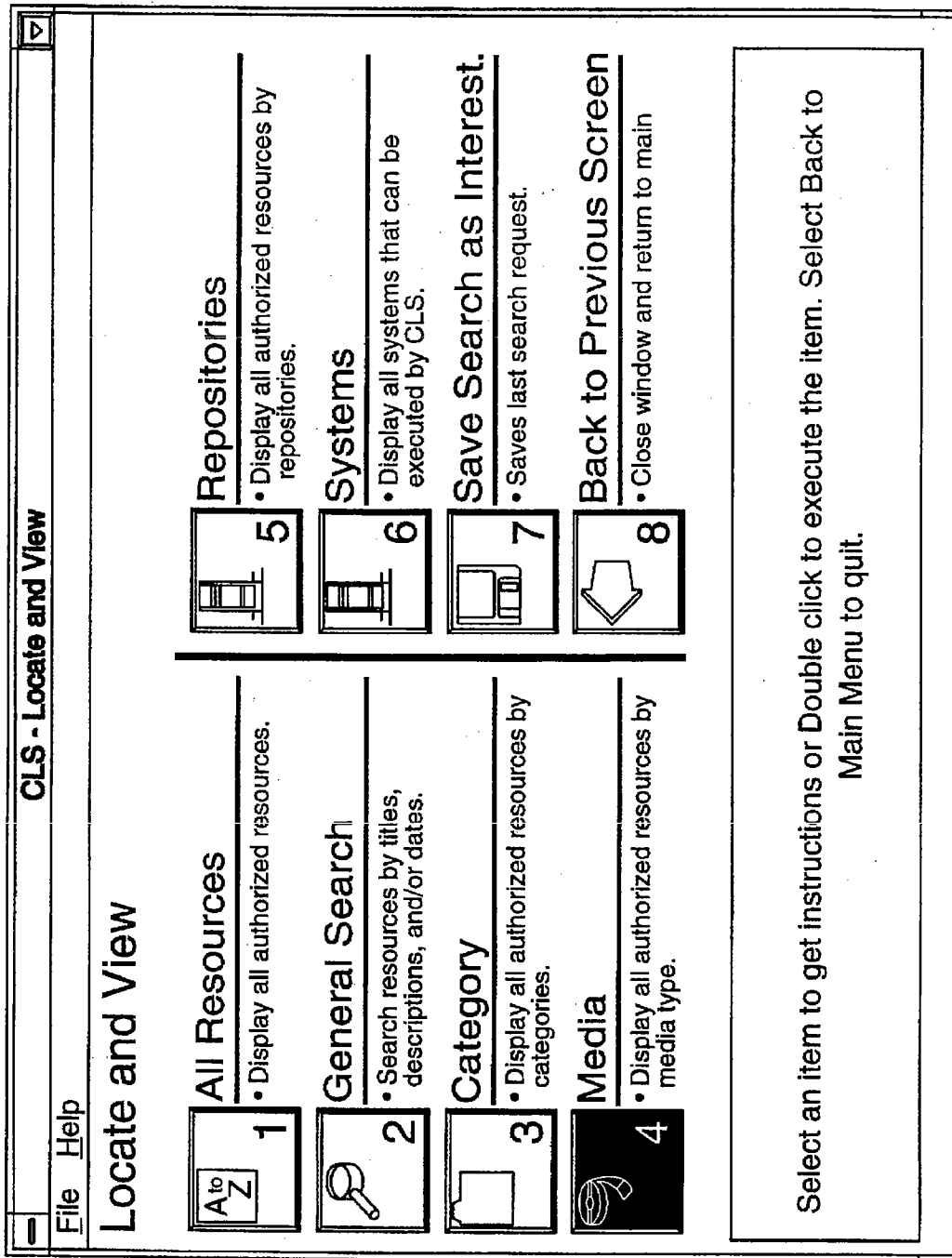
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FIG. 25



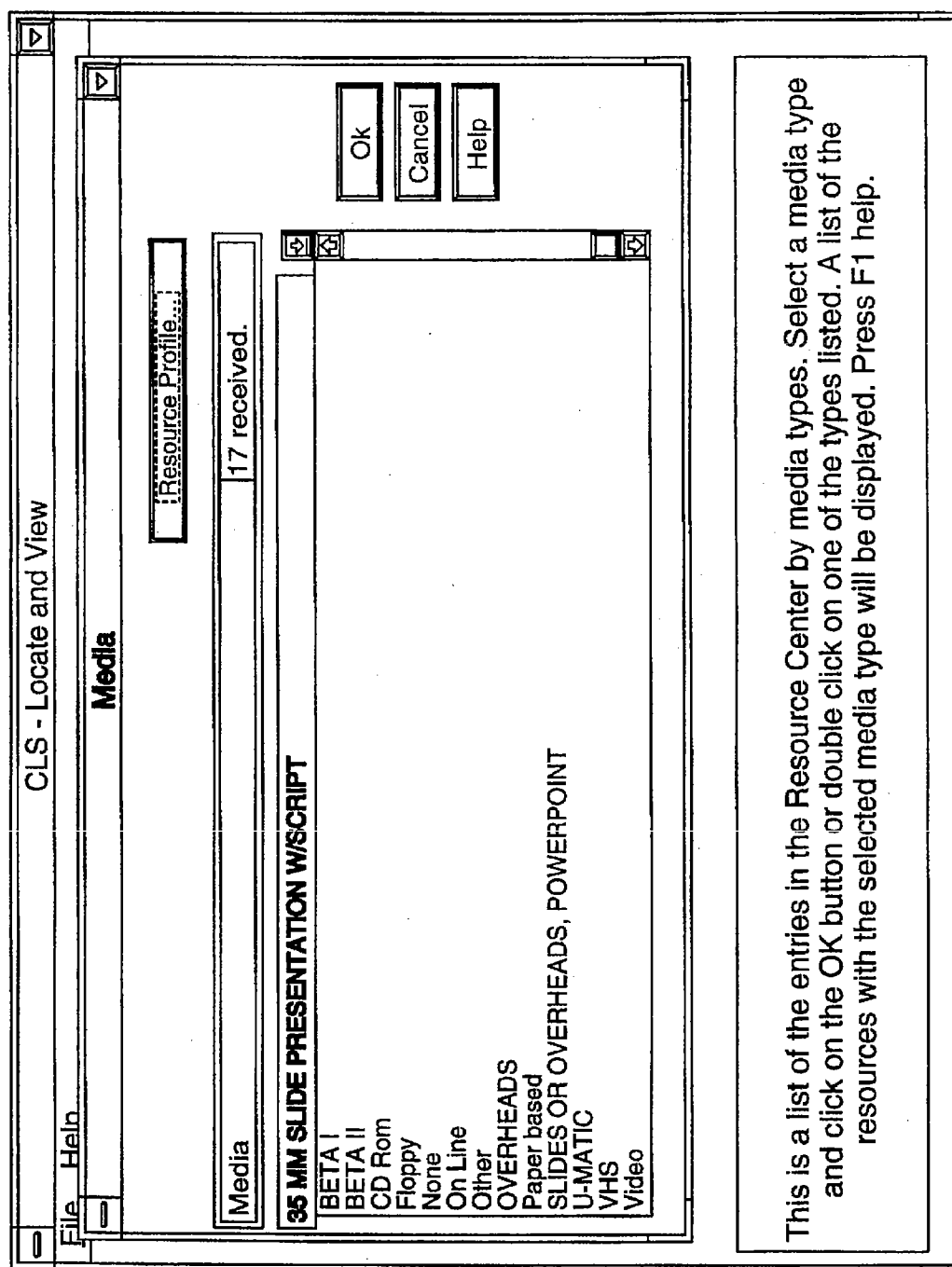
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FIG. 26



This is a list of the entries in the Resource Center by media types. Select a media type and click on the OK button or double click on one of the types listed. A list of the resources with the selected media type will be displayed. Press F1 help.

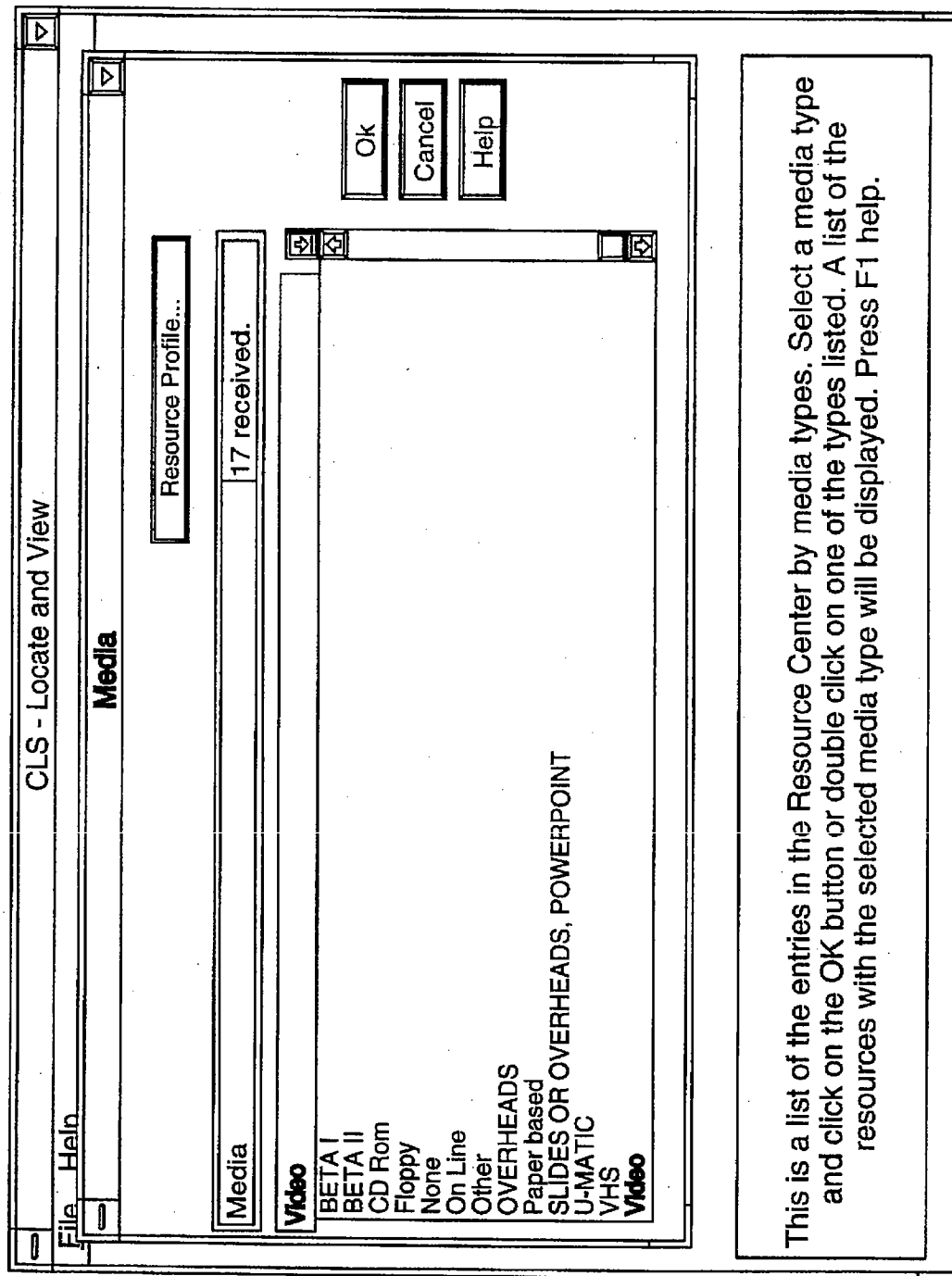
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FIG. 27



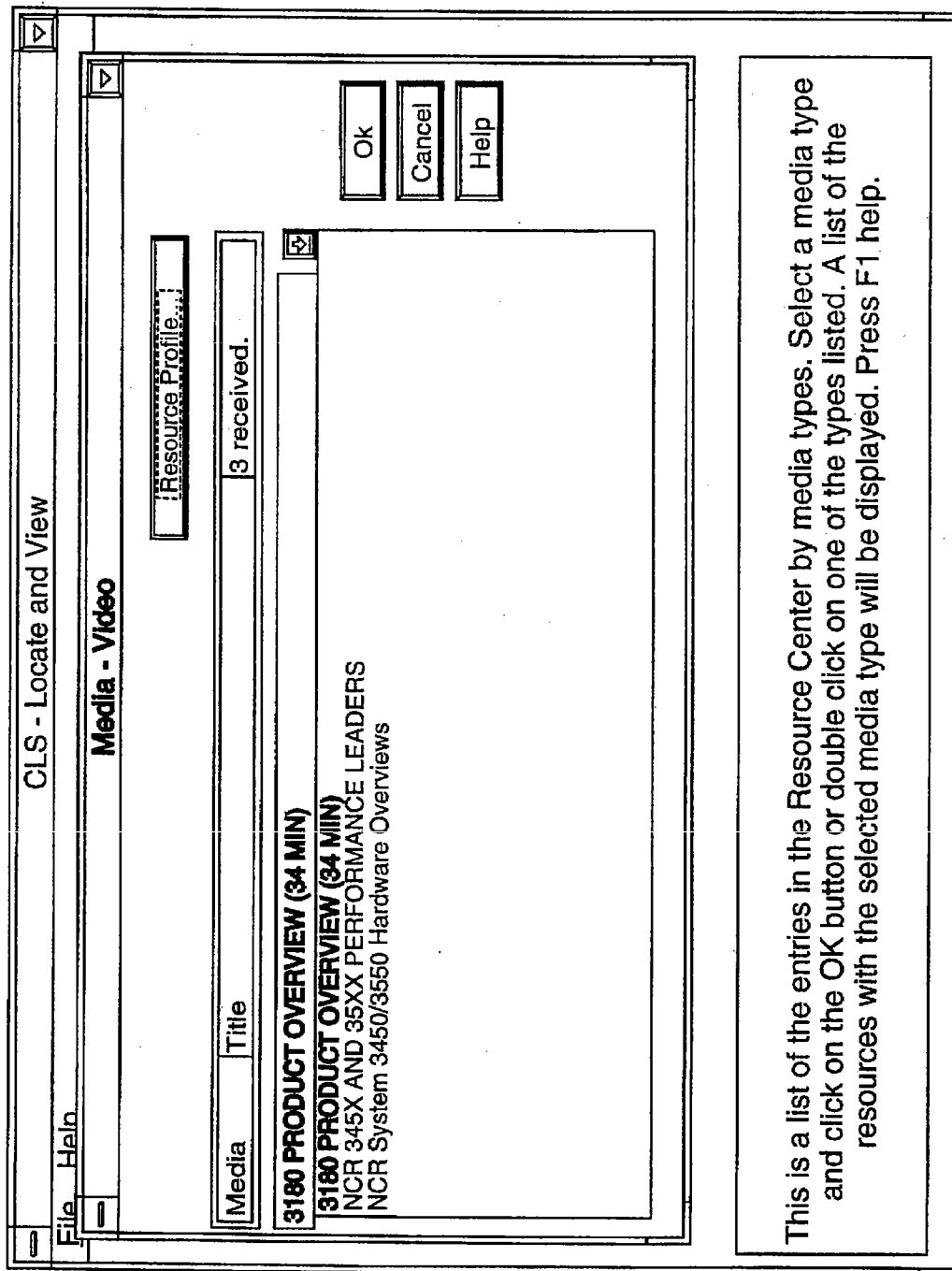
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FIG. 28

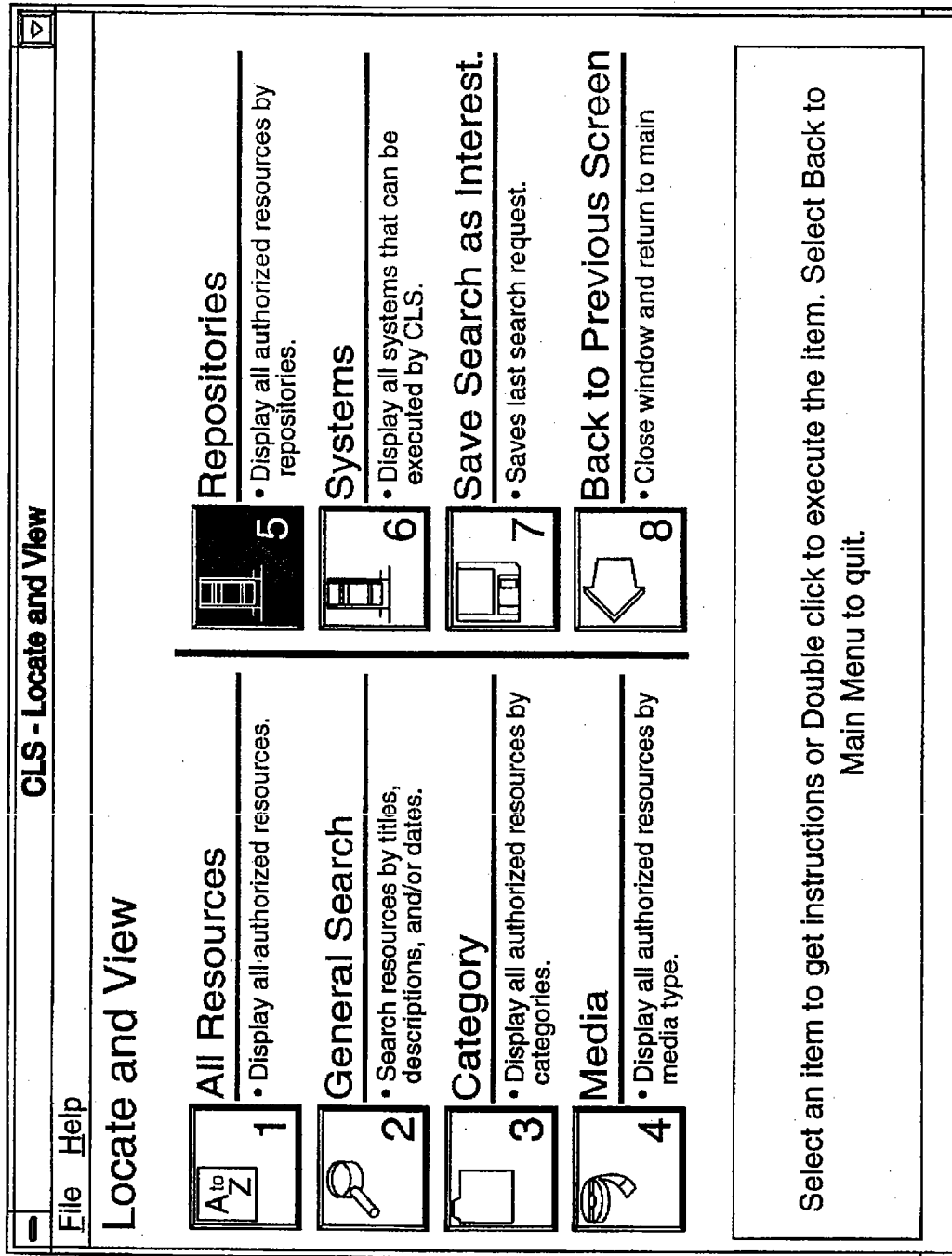


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FIG. 29

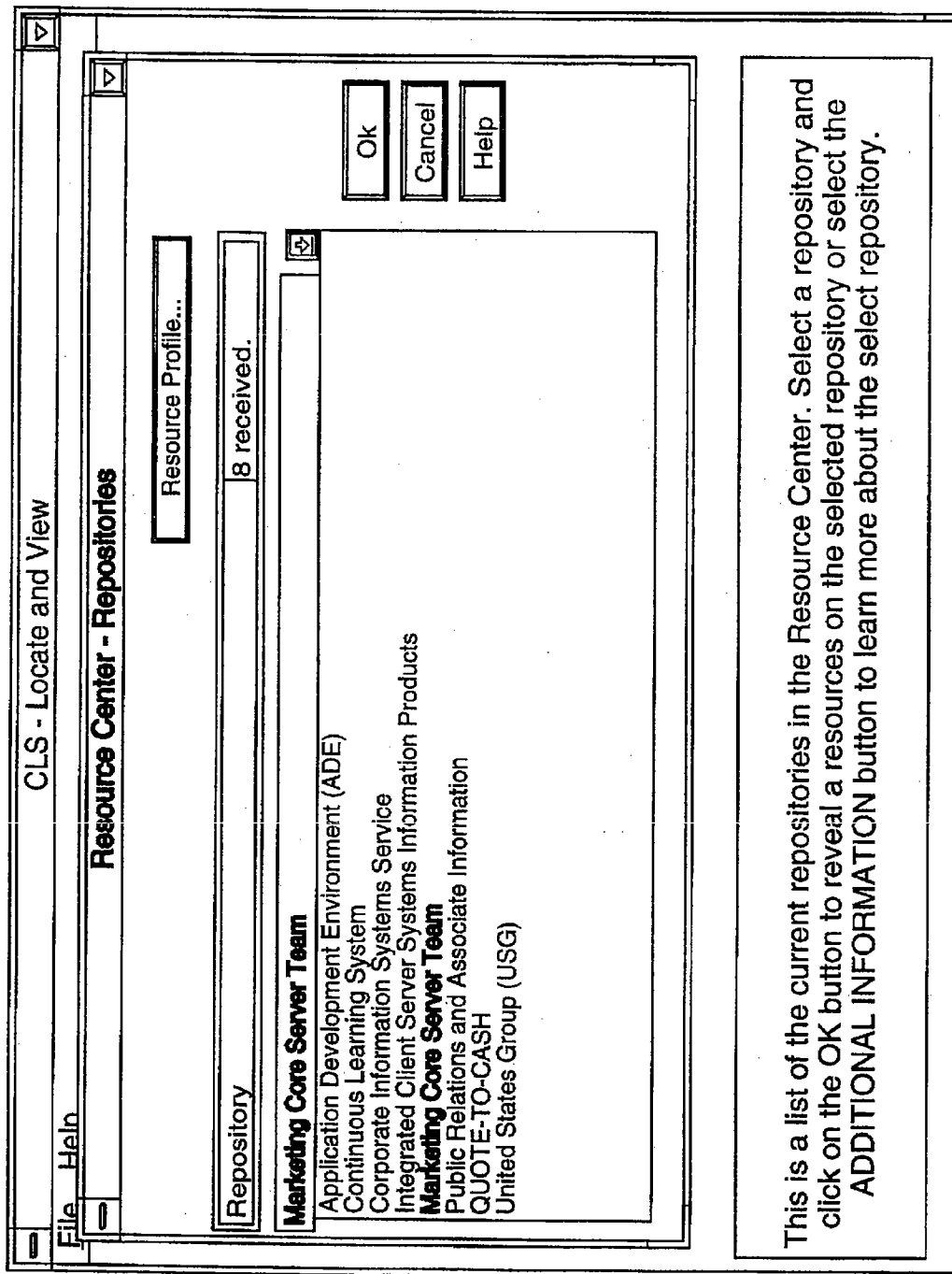
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FIG. 30



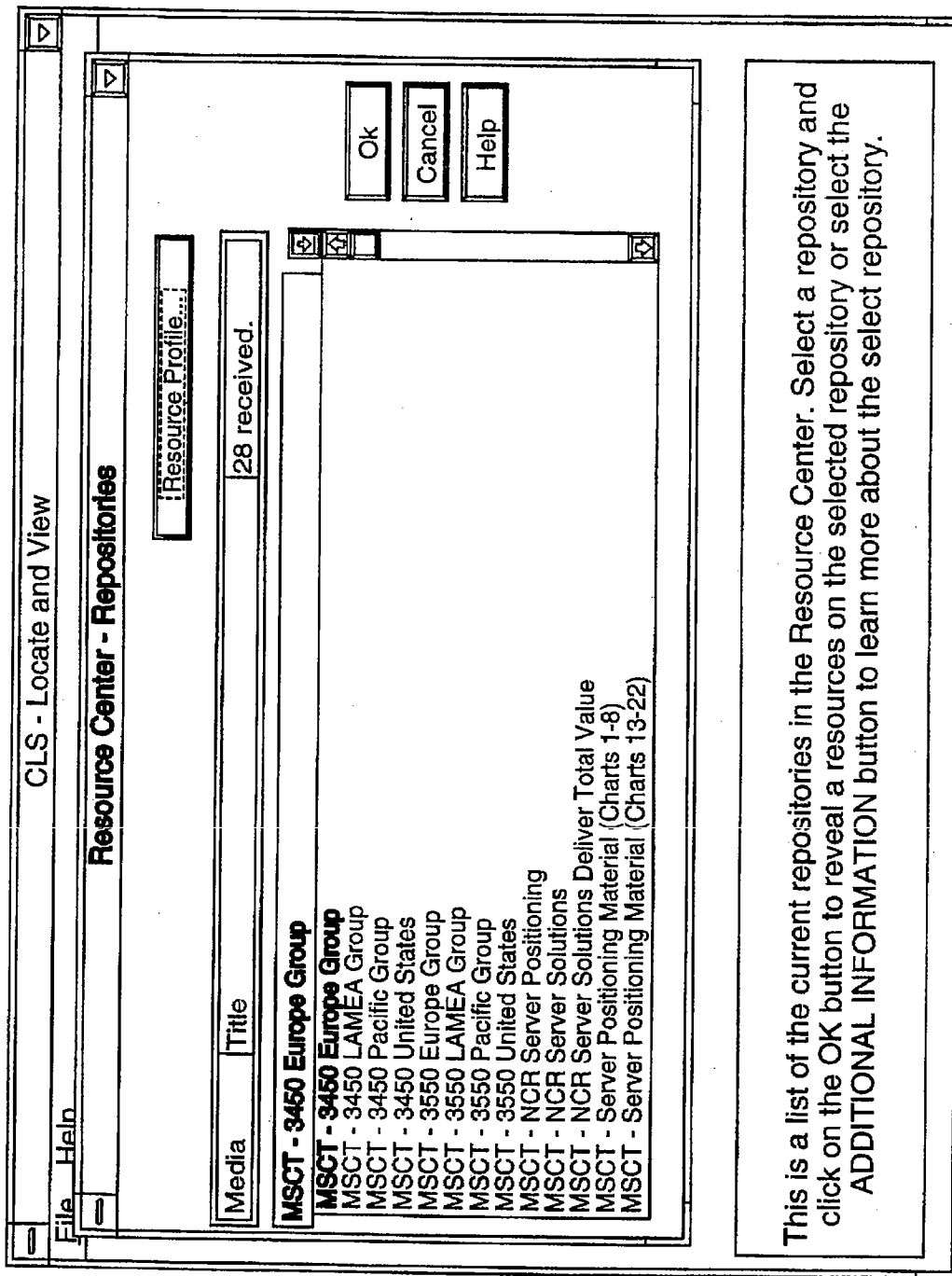
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FIG. 31



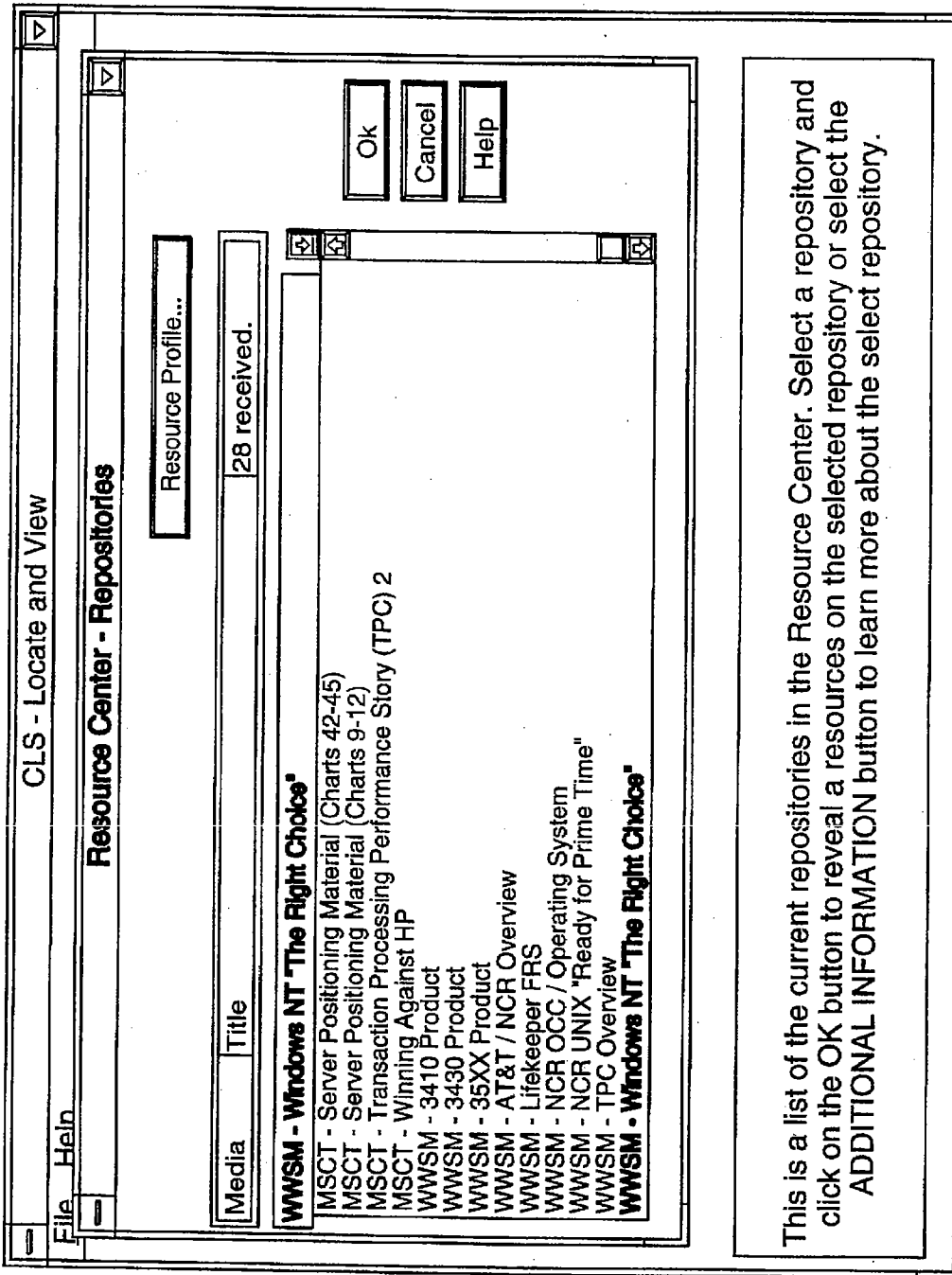
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FIG. 32



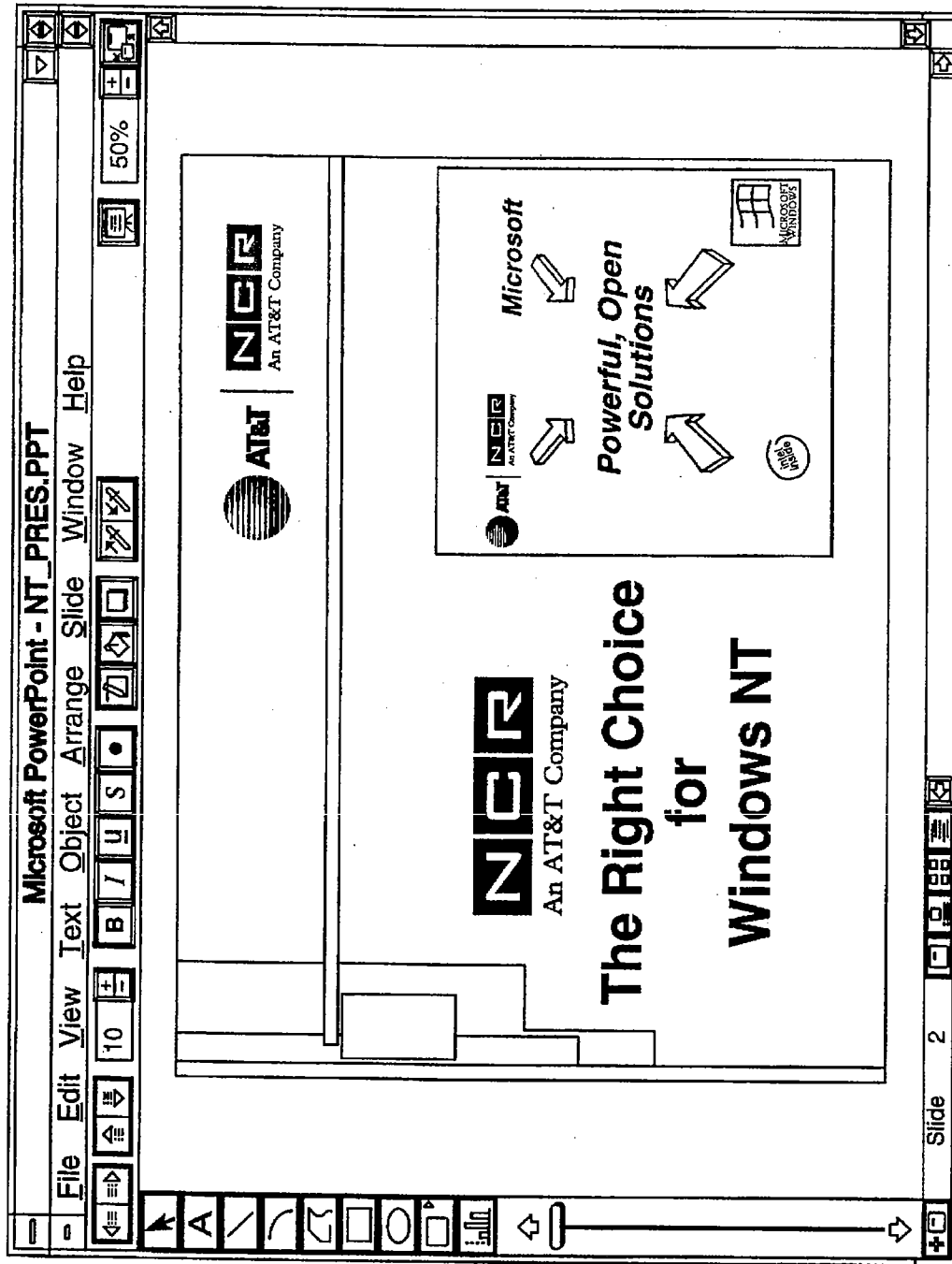
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FIG. 33



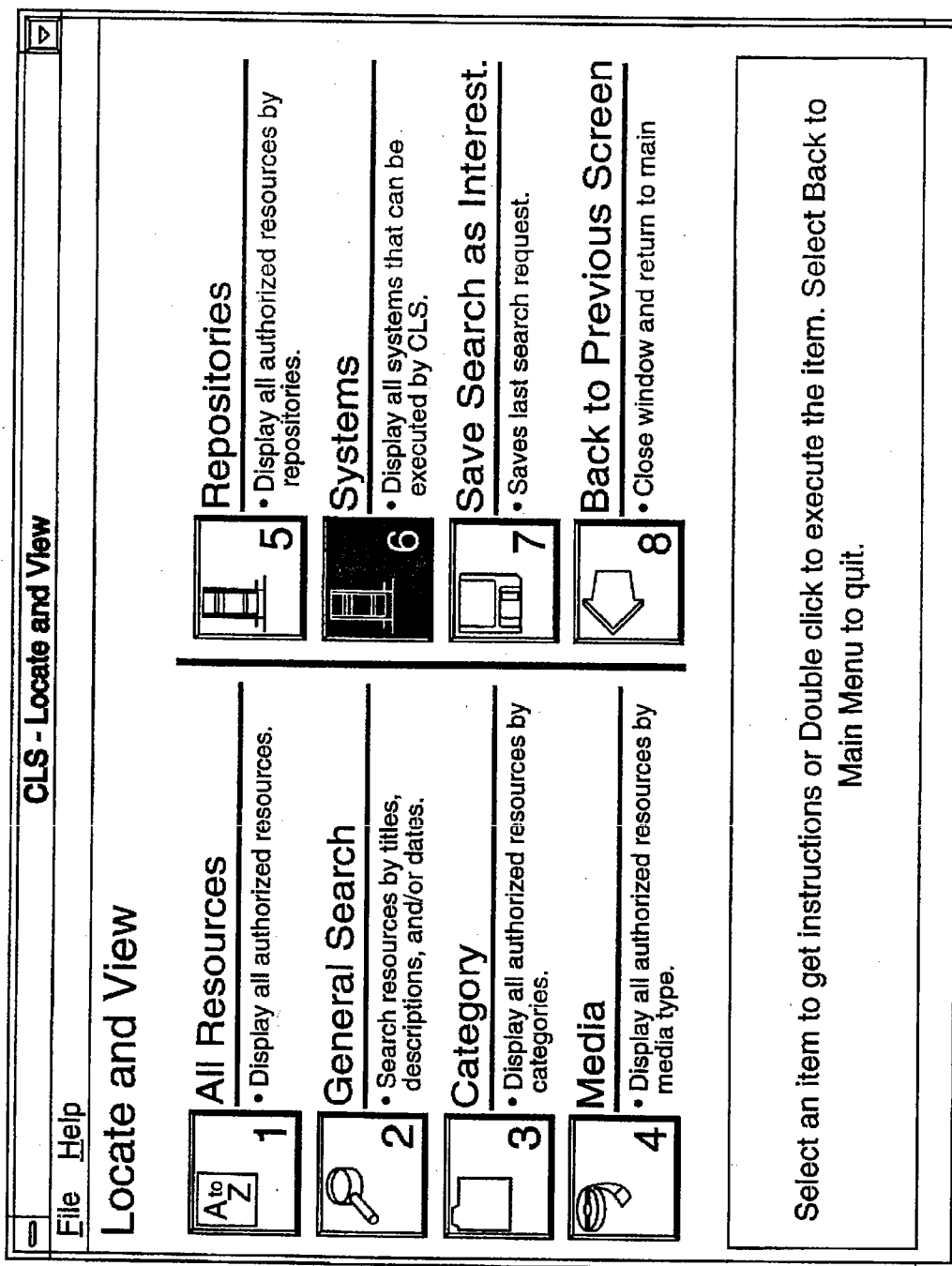
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FIG. 34



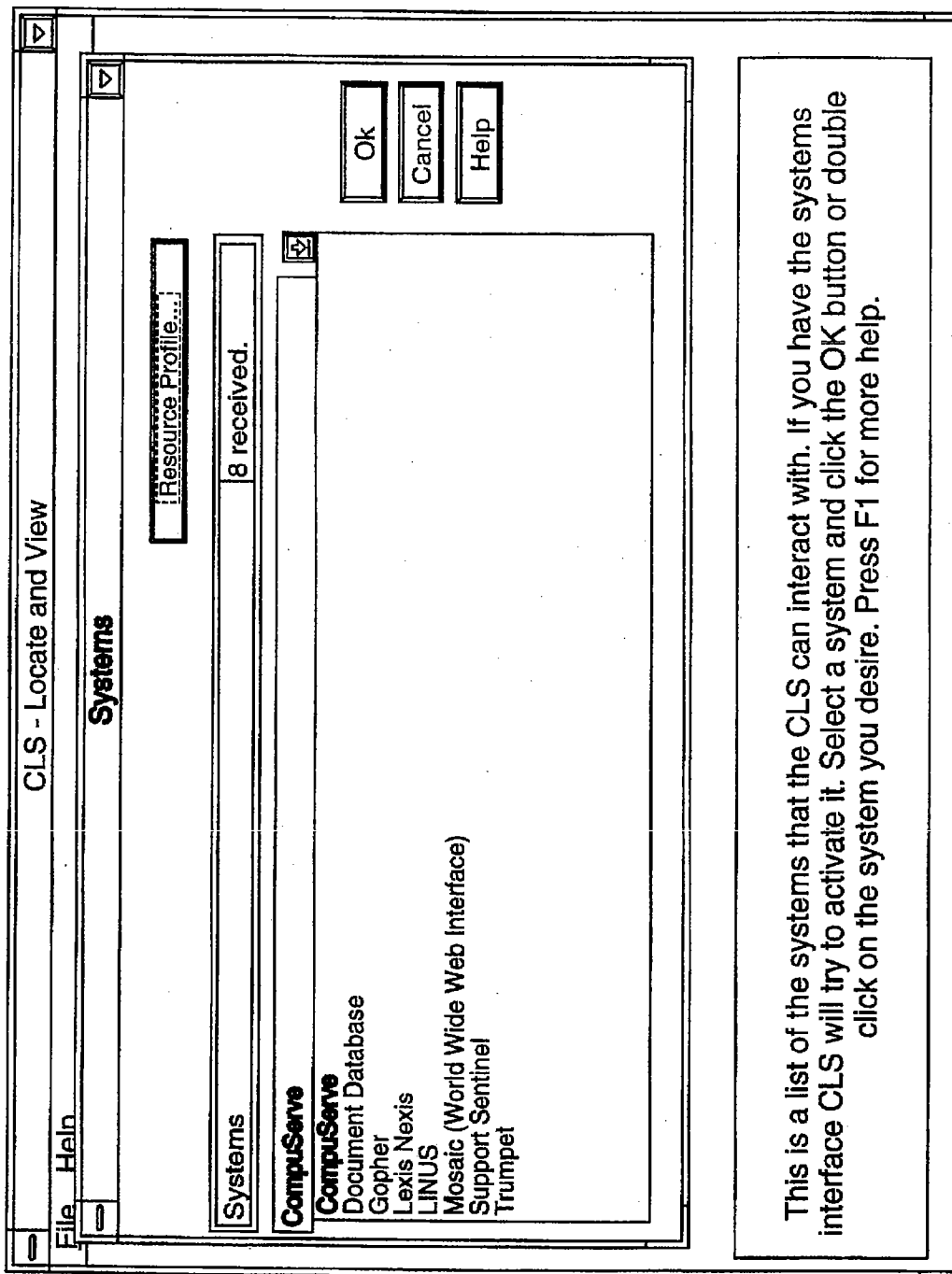
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FIG. 35



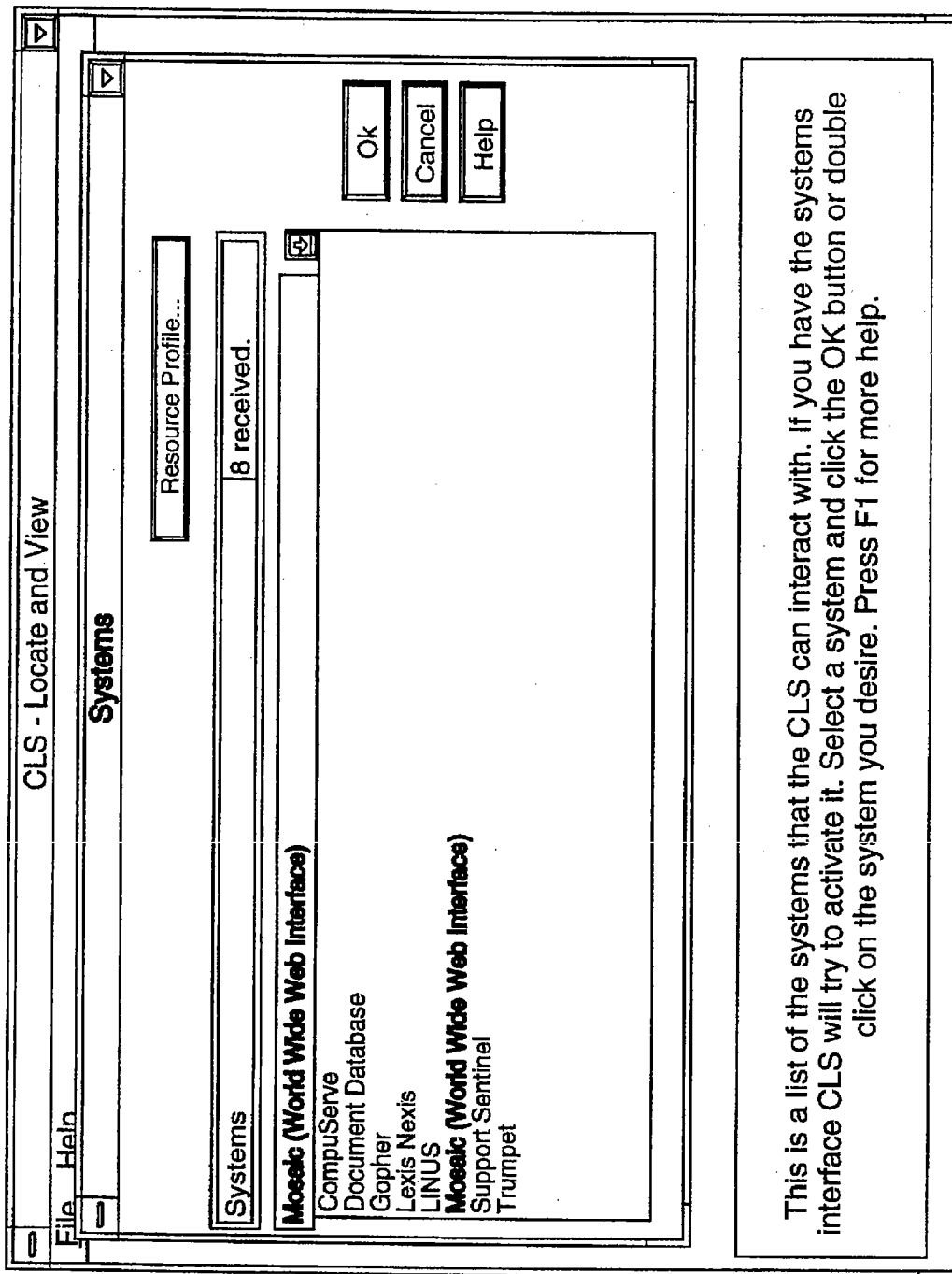
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FIG. 36



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FIG. 37

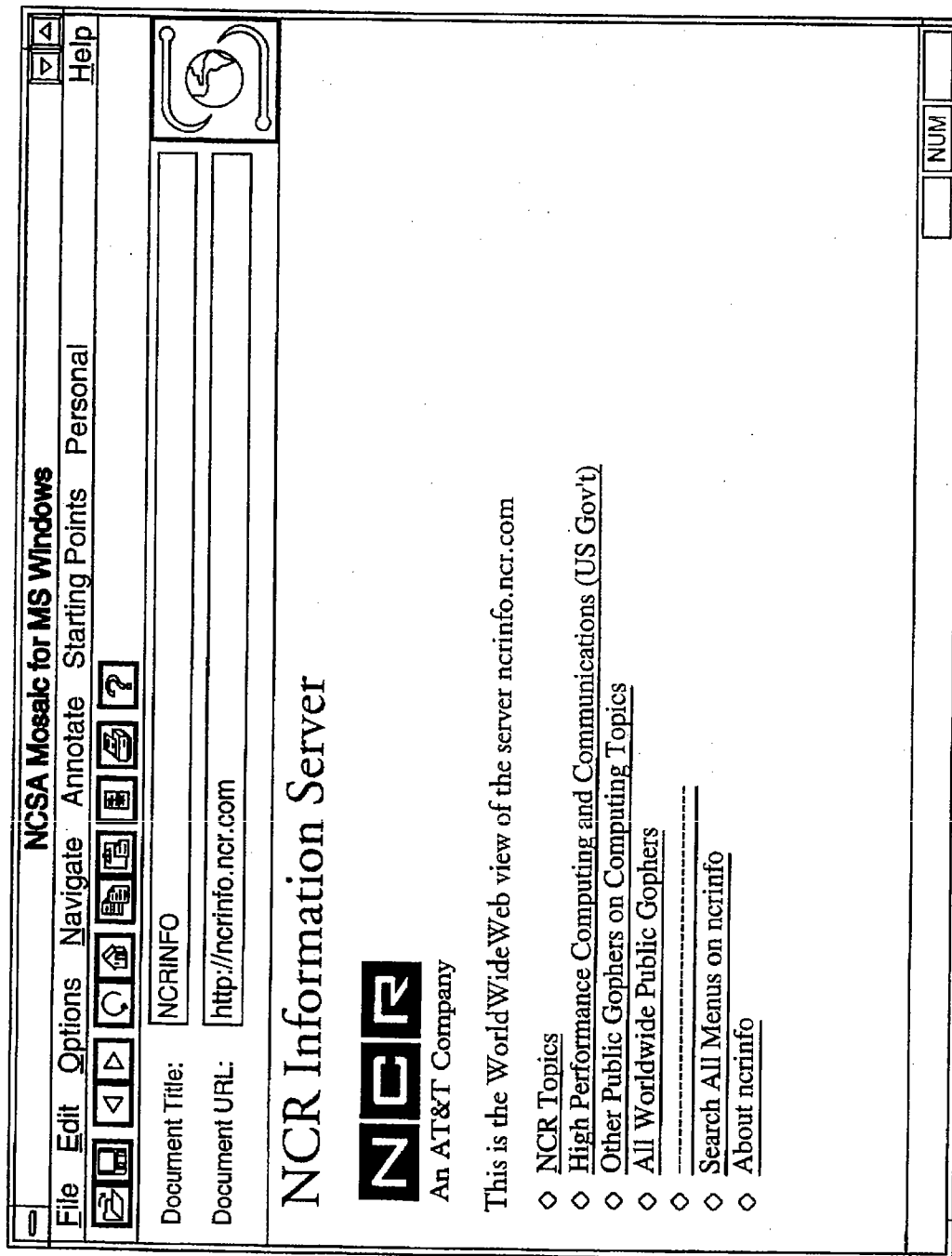
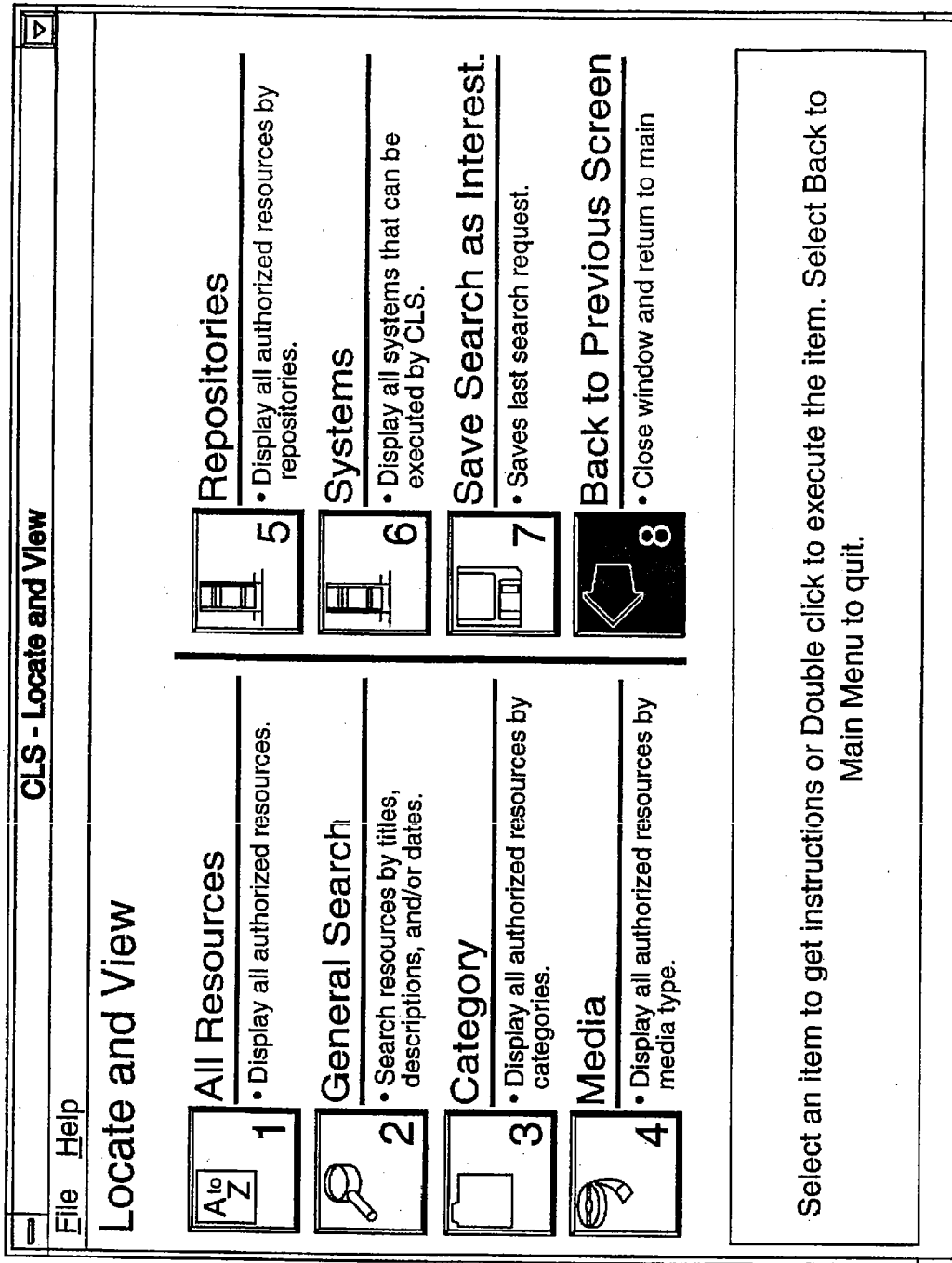


FIG. 38



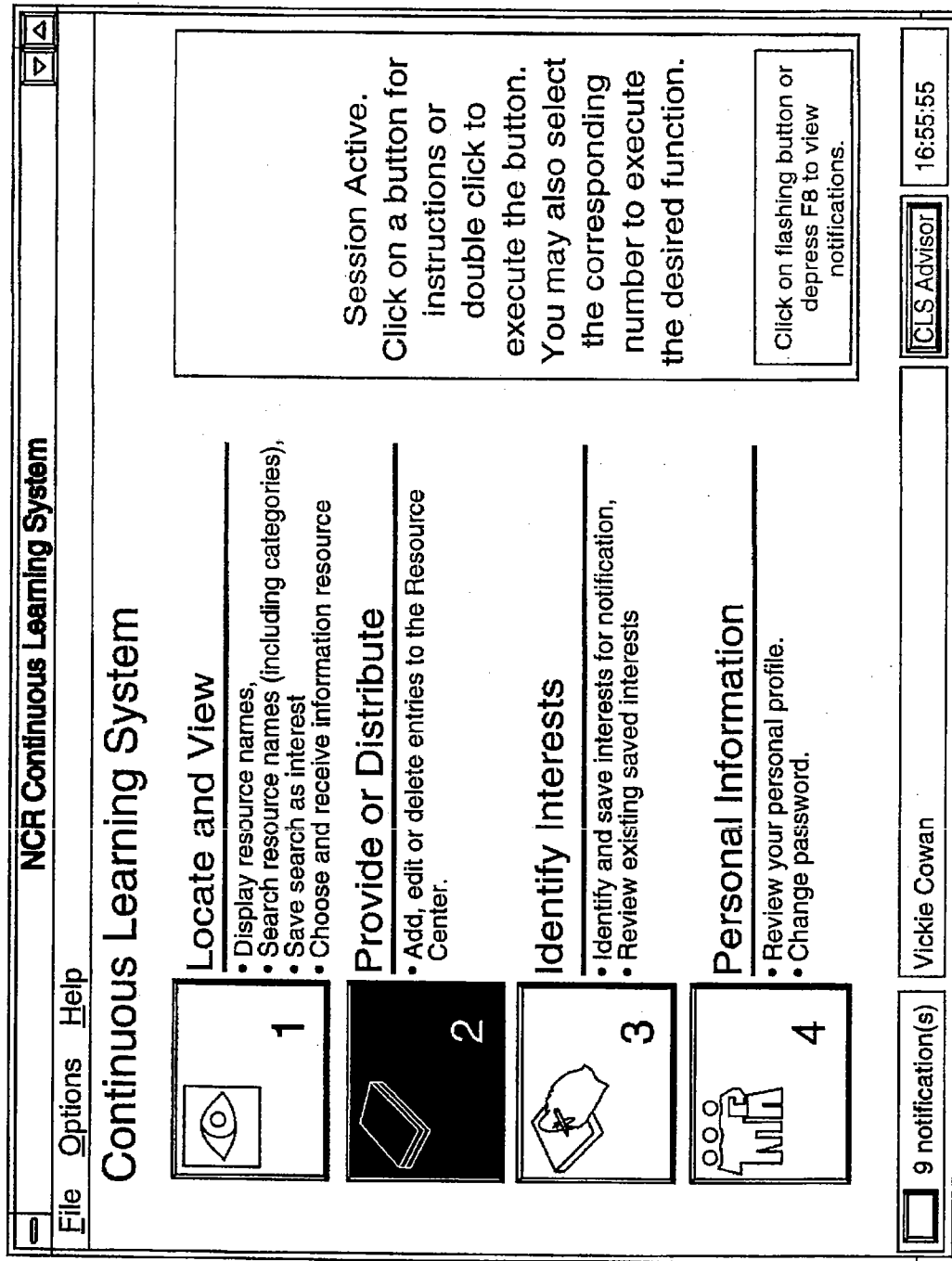
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FIG. 39



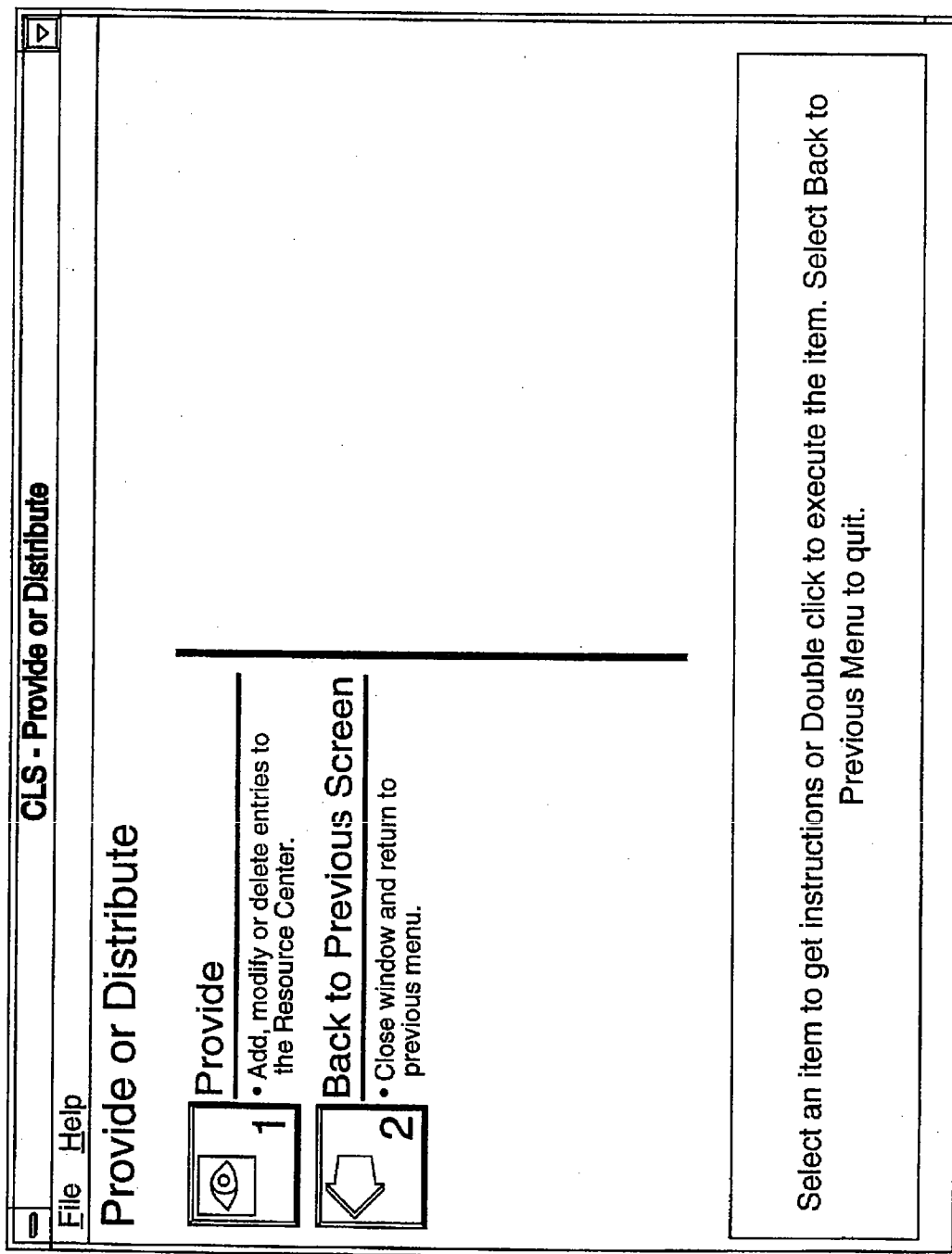
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FIG. 40



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FIG. 41

Resource Administration	
File	Help
Access Level:	<input type="checkbox"/> Public <input type="checkbox"/> Organization <input type="checkbox"/> Team
Resource Title:	
Date Added:	Date Updated: / /
Product ID:	Media:
Cost:	Format:
Price:	Point of Contact:
Information Category:	Alternate Administrator:
Information Filename:	Bitmap>>
Repository:	
Resource Description:	
Remarks	
Please select either New, Modify or Cancel.	

Ok Cancel New Modify Delete Clear All Help

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FIG. 42

The screenshot shows a window titled "Resource Administration" with a menu bar containing "File" and "Help". The window is divided into several sections for data entry:

- Access Level:** Three checkboxes labeled "Public", "IPD only", and "Team".
- Resource Title:** A single-line text input field.
- Date Added:** A text input field followed by a "Date Updated:" label and a date format " / / ".
- Product ID:** A text input field.
- Cost:** A text input field.
- Price:** A text input field.
- Information Category:** A dropdown menu with options: "Customer", "Marketing", "Product", "Supplier", "Technology", "Other", and "Partnership".
- Information Filename:** A text input field.
- Repository:** A text input field.
- Resource Description:** A multi-line text input area.
- Remarks:** A large multi-line text input area at the bottom.

On the right side of the window, there is a vertical stack of buttons: "Ok", "Cancel", "New", "Modify", "Delete", "Clear All", and "Help".

At the bottom right, a rounded rectangular button contains the text: "Please enter new data at this time and click on OK."

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FIG. 43

Resource Administration

File Help

Access Level: ☐ Public ☐ IPD only ☐ Team

Resource Title:

Date Added: Date Updated: / /

Product ID:

Cost:

Price:

Information Category:

Information Filename:

Repository:

Resource Description:

Remarks:

Media:

Format:

Point of Contact:

Alternate Administrator:

Product ☐ Supplier ☐ Technology ☐ **Other** ☐ Partnership ☐ CORE IP ☐ CLS-TEAM NOTES

Bitmap>>

Ok Cancel New Modify Delete Clear All Help

Please enter new data at this time and click on OK.

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FIG. 44

Resource Administration

File Help

Access Level: ☐ Public ☐ IPD only ☐ Team

Resource Title:

Date Added: Date Updated: / /

Product ID:

Cost:

Price:

Information Category:

Information Filename:

Repository:

Resource Description:

Remarks:

Media: Format: Point of Contact: Alternate Administrator:

Please enter new data at this time and click on OK.

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FIG. 45

Resource Administration

File Help

Access Level: ☐ Public ☐ IPD only ☐ Team

Resource Title:

Date Added: Date Updated: / /

Product ID:

Cost:

Price:

Information Category:

Information Filename:

Repository:

Resource Description:

Remarks:

Media: Format: Point of Contact: Alternate Administrator:

Please enter new data at this time and click on OK.

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FIG. 46

Resource Administration

File Help

Access Level: ☐ Public ☐ IPD only ☐ Team

Resource Title:

Date Added:

Product ID:

Cost:

Price:

Information Category:

Information Filename:

Repository:

Resource Description:

Remarks:

Please enter new data at this time and click on OK.

Filename: File size: 0

Current Directory: C:\CLNUPDATE

Dir List:

- ☐ [-a-]
- ☐ [-c-]
- ☐ [-m-]
- ☐ [-p-]
- ☐ [-s-]
- ☐ [..]

File List:

- cat.ico
- catatoz.ico
- clnsign.obr
- clnsign1.obr
- cis.ini
- cishelp.hlp
- cisnew.zip
- clsxfr.bat
- clsxfr.pif

Buttons: Ok Cancel New Modify Delete Clear All Help

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FIG. 47

Resource Administration

File Help

Access Level: ☐ Public ☐ IPD only ☐ Team

Resource Title:

Date Added:

Product ID:

Cost:

Price:

Information Category:

Information Filename:

Repository:

Resource Description:

Remarks:

Please enter new data at this time and click on OK.

Filename: File size:

Current Directory:

Dir List:

[-a-]
[-c-]
[-m-]
[-p-]
[-s-]
[..]

File List:

clock.exe
cls.bmp
cls.ini
cls1.bmp
clsadmin.grp
clsdemo.ppt
clsdisk.doc
clsicons.bmp
clsxfr.pif

Buttons:

Buttons:

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FIG. 48

Resource Administration	
File Help	
Access Level:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> IPD only <input type="checkbox"/> Team
Resource Title:	CLS - Test resource for training
Date Added:	Date Updated: / /
Product ID:	Media: On Line
Cost:	Format: Notepad
Price:	Point of Contact: McCollum, Tab
Information Category:	Alternate Administrator: Cowan, Vickie
Information Filename:	<input type="button" value="Bitmap>>"/> C:\WINDOWS\CLS1.BM
Repository:	Continuous Learning System
Resource Description:	
Remarks	<div>Please enter new data at this time and click on OK.</div>
<div> <input type="button" value="Ok"/> <input type="button" value="Cancel"/> <input type="button" value="New"/> <input type="button" value="Modify"/> <input type="button" value="Delete"/> <input type="button" value="Clear All"/> <input type="button" value="Help"/> </div>	

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FIG. 49

File Help		Resource Administration	
Access Level:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> IPD only <input type="checkbox"/> Team		
Resource Title:	CLS - Test resource for training		
Date Added:		Date Updated:	/ /
Product ID:		Media:	On Line
Cost:		Format:	Notepad
Price:		Point of Contact:	McCollum, Tab
Information Category:	General	Alternate Administrator:	Cowan, Vickie
Information Filename:	\public\tab\ttest1.txt Continuous Learning System		
Repository:	C:\WINDOWS\CLS1.BM		
Resource Description:			
Remarks			
CLS - TEST RESOURCE FOR TRAINING was successfully added to the CLS database.			
		<input type="button" value="Ok"/> <input type="button" value="Cancel"/> <input type="button" value="New"/> <input type="button" value="Modify"/> <input type="button" value="Delete"/> <input type="button" value="Clear All"/> <input type="button" value="Help"/>	

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FIG. 50

CLS - Locate and View

File Help

Search

AND-@ OR- / NOT- /

Title: training

Description:

Date: / / dd/mm/yy

AND ON

Ok Cancel Clear Help

media

4

Display all authorized resources by media type.

BACK TO PREVIOUS SCREEN

Close window and return to main

Type in your search word, phrase or letters. Click on Search button and if there are any resources that match your search entry a list will be displayed or an error will be displayed. Press F1 for help.

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FIG. 51

File Help

Catalog Search Results

Resource Profile...

2 entries returned.

	Date/Time	Title
1	10/18/93 07:46	Training on the Continuous Learning System
2	01/21/94 16:55	CLS - Test resource for training

Retrieve Close